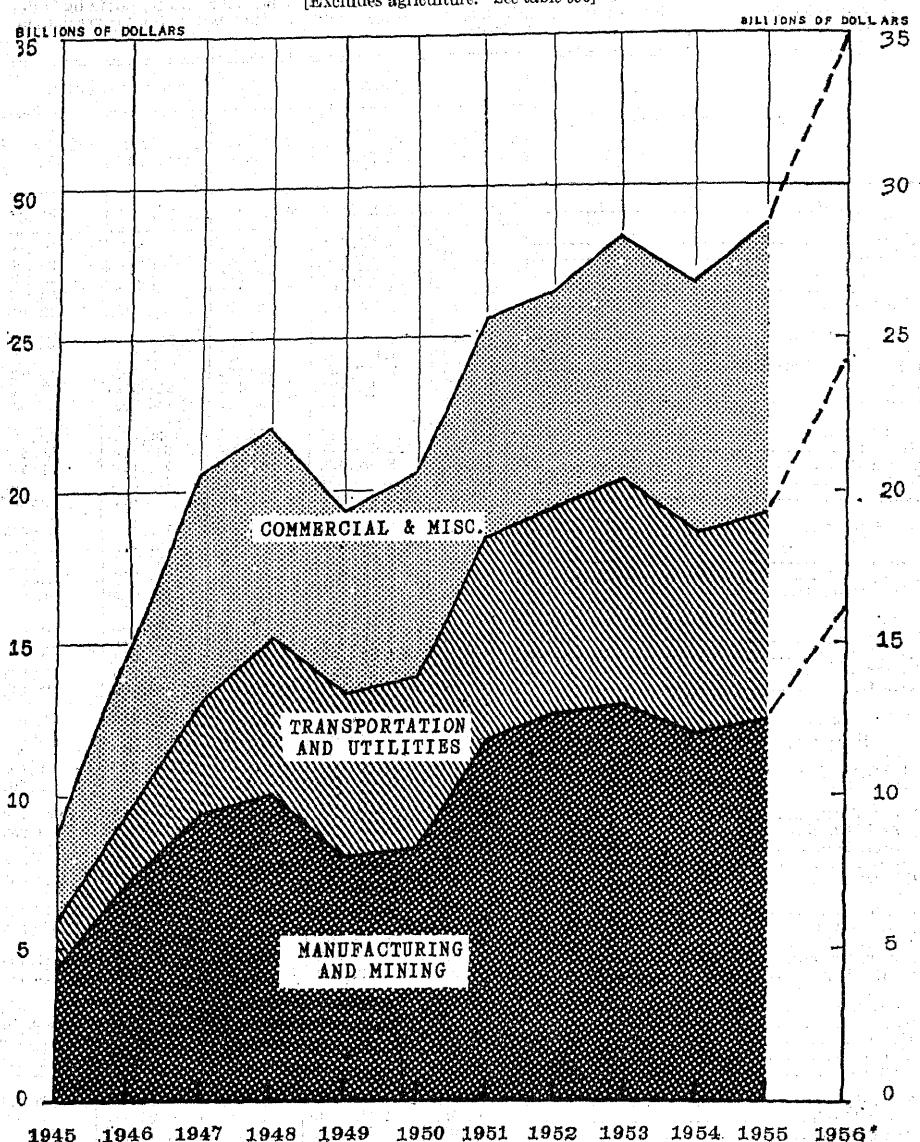


FIG. XXX.—BUSINESS EXPENDITURES FOR NEW PLANT AND EQUIPMENT: 1945 TO 1956\*

[Excludes agriculture. See table 596]



\*Anticipated by business.

Source: Securities and Exchange Commission and Department of Commerce, Office of Business Economics.

## Section 17

### Business Enterprise

Statistics in this section relate in general to the place and behavior of the business firm and business initiative in the American economy. The data include measures of and changes in the numbers of businesses; assets and liabilities of corporations; types of business income and expenditures; business sales and inventories; research and development expenditures; and patents and designs registered.

The principal sources of these data are the *Survey of Current Business* and its *National Income Supplement* published by the Office of Business Economics, Department of Commerce; the *Federal Reserve Bulletin* issued by the Board of Governors of the Federal Reserve System; and *Dun's Statistical Review* published by Dun and Bradstreet. Other sources are publications of the Securities and Exchange Commission, the Internal Revenue Service, and the United States Patent Office.

**Firms in operation, entering, and leaving.**—The number of firms in existence and the number of new, discontinued, and transferred businesses are estimated by the Office of Business Economics on the basis of data from the Internal Revenue Service and the Bureau of Old-Age and Survivors Insurance.

A business firm is defined by the Office of Business Economics as a business organization under a single management and may include one or more plants or outlets; a firm doing business in more than one industry is classified by industry according to the major activity of the firm as a whole. A self-employed person is considered a firm only if he has either one or more employees or has an established place of business. This count of firms differs from that of the Bureau of the Census which ordinarily represents a count of establishments, e. g., manufacturing plants or retail stores, larger than a minimum specified size.

New businesses include firms which are newly established; discontinued businesses refer only to liquidations. Business transfers represent purchases of going businesses, acquisitions of businesses through inheritance, transfers of businesses to a trustee or executor, as well as changes in the form of business organization.

**Industrial and commercial failures.**—These data are collected by Dun and Bradstreet, and are available by years since 1857 and by months since 1900. The number of failures includes concerns involved in court proceedings or voluntary actions likely to end in loss to creditors; discontinuances with outside obligations paid in full are not included. Data cover manufacturers, wholesalers, retailers, building contractors, and certain types of commercial service, but do not encompass all business enterprises. Specific types of business not listed are: Finance, insurance, and real estate companies; railroads and steamship lines; amusement enterprises. Failures data are published monthly in summary form in *Dun's Review & Modern Industry* and in detailed tabulations in *Dun's Statistical Review*.

**Corporate assets and liabilities.**—Data on corporate assets and liabilities are from the Internal Revenue Service and the Securities and Exchange Commission. In its annual report, *Statistics of Income*, Part 2, the Internal Revenue Service presents abbreviated balance sheet and income account data for all United States corporations. In a quarterly release entitled *Net Working Capital of U. S. Corporations*, the Securities and Exchange Commission publishes data on the net working capital position of all United States corporations, exclusive of banks and insurance companies, showing the principal components of current assets and liabilities.

**Note.**—This section presents data for the most recent year or period available on April 11, 1956, when the material was organized and sent to the printer. In some instances, more recent data were added later.

**Corporate income, profits, dividends, and taxes.**—Several agencies (the Internal Revenue Service, the Office of Business Economics, and the Federal Reserve Board) compile corporate income account data. These data, however, are not comparable because of differing methods of compilation.

The Internal Revenue Service publishes corporate data based on income tax returns in its annual *Statistics of Income*, Part 2.

The corporate data issued by the Office of Business Economics are a part of its national income and product accounts and are defined as required for purposes of national income estimation. The primary sources of data for the Office of Business Economics estimates of profits, taxes, dividends, and undistributed profits are the original corporate tax returns submitted to the Internal Revenue Service, and summarized in the annual report on *Statistics of Income*, Part 2. Various adjustments of the *Statistics of Income* data have been required by the national income treatment, particularly with respect to depletion, capital gain or loss, and intercorporate dividends, and because the original corporate income statements do not represent the final stage of information.

Federal Reserve Board data relating to profits and dividends apply to particular industrial segments only, such as large manufacturing corporations and public utility corporations.

**Sources and uses of corporate funds.**—These data indicate capital requirements of corporations and the manner in which they are financed. Sources of funds are equal to their uses. Certain discrepancies, however, apart from errors in estimation, interfere with this equality. These discrepancies are not particularly significant and are due to omission of such factors as (1) money accruing to corporations from an excess of sales over purchases of used plant and equipment, (2) transactions in securities held as permanent investments except public offerings, and (3) the fact that net new issues omit entrepreneurial capital for new corporations where no offering or sales of securities are made to the public or to institutions. Neither is liquidation of such corporations reflected.

**Business sales and inventories.**—Business sales and inventories are defined as the sum of data for manufacturing, wholesale, and retail trade. Sales are estimated aggregate values and inventories are book values at the end of the year. Sales signifies sales or shipments for retail and wholesale trade and billings or shipments for manufacturing. Trade inventories are valued at cost of merchandise on hand, while manufacturer's inventories are valued at the cost price or market price, whichever is lower. The data on sales and inventories for manufacturers are based on annual data through 1952, published by the Bureau of Internal Revenue in *Statistics of Income*, Part 2, with an adjustment for unincorporated manufacturing concerns.

**Net change in business inventories.**—To ascertain net physical change in nonfarm inventories, book values of beginning and ending inventories of each year are expressed in terms of constant base year prices by means of selected Bureau of Labor Statistics wholesale price indexes appropriate to each industry. Net increment in deflated book value figures is then converted to a current price basis by index ratios of current prices to base year prices. No inventory valuation adjustment is shown for farm inventories because change in farm inventories is estimated (by the Department of Agriculture) from physical quantity data.

**Plant and equipment expenditures of U. S. business.**—A joint survey by the Securities and Exchange Commission and the Department of Commerce presents quarterly data on actual expenditures of U. S. business, other than agriculture, and anticipated expenditure for the next two quarters. In addition, a survey is made at the beginning of each year of plans of business as regards capital expenditures during that year. The data are based on reports submitted by corporations registered with the Securities and Exchange Commission and by a large sample of nonregistered manufacturing and retail companies, unincorporated as well as corporate, reporting to the Department of Commerce.

**Historical statistics.**—Tabular headnotes (as "See also *Historical Statistics*, series P 176-187") provide cross-references, where applicable, to *Historical Statistics of the United States, 1789-1945*. See preface.

**No. 577.—AVERAGE NUMBER OF FIRMS IN OPERATION, 1929 TO 1955, AND NEW AND DISCONTINUED BUSINESSES, 1940 TO 1955**

[In thousands. Data are for continental United States. Excludes firms in agriculture and the professional services. New businesses include only firms which have been newly established; going concerns which have been purchased are considered business transfers. Discontinued businesses include closures of all kinds without reference to reason for discontinuing—e. g., failure, retirement, illness of proprietor, etc.]

STATUS OF FIRMS AND YEAR	All industries	Mining and quarrying	Contract construction	Manufacturing	Transportation, communication, and other public utilities	Wholesale trade	Retail trade	Finance, insurance, and real estate	Service industries
<b>FIRMS IN OPERATION</b>									
<b>Annual averages:</b>									
1929.....	3,029.0	36.3	233.8	257.0	119.5	148.1	1,327.0	316.2	590.9
1930.....	2,993.7	33.4	230.2	228.1	116.0	146.6	1,325.5	315.2	598.7
1933.....	2,782.1	32.8	185.4	166.8	107.6	141.8	1,291.2	281.7	574.9
1935.....	2,991.9	35.5	180.2	205.0	127.2	157.0	1,387.2	283.8	615.8
1940.....	3,290.8	35.6	198.8	226.0	149.6	136.4	1,567.4	300.6	620.3
1945.....	3,113.9	32.2	176.8	258.4	144.2	196.9	1,403.5	310.3	591.5
1948.....	3,948.3	37.2	329.0	320.0	178.8	257.9	1,763.8	323.4	783.8
1949.....	4,000.0	37.0	347.5	320.5	179.1	261.8	1,794.3	323.0	736.8
1950.....	4,050.7	37.0	370.5	320.7	179.5	266.2	1,815.8	325.5	735.6
1951.....	4,108.5	37.4	388.6	327.2	182.7	273.1	1,834.0	329.9	735.5
1952.....	4,167.4	38.1	411.0	328.8	184.0	280.5	1,850.8	334.7	739.5
1953.....	4,193.9	38.3	428.4	325.5	183.5	284.7	1,855.3	337.8	740.4
<b>Number in operation as of June 30—</b>									
1951.....	4,116.9	37.5	390.7	328.8	183.3	273.7	1,836.4	330.3	736.3
1952.....	4,175.4	38.1	414.0	329.6	183.8	280.9	1,863.6	335.0	740.4
1953.....	4,205.7	38.4	432.3	326.6	184.1	285.0	1,889.2	338.2	741.9
1954.....	4,196.7	38.8	441.3	317.6	178.8	287.1	1,850.7	340.2	742.3
1955 (prel.).....	4,225.0	39.4	457.1	312.5	179.0	290.3	1,864.6	345.6	746.6
<b>NEW BUSINESSES</b>									
1940.....	275.2	5.3	21.9	29.2	16.7	20.4	117.9	14.7	49.2
1945.....	422.7	4.0	55.8	37.2	26.7	30.2	161.4	22.9	84.5
1948.....	393.3	5.3	65.0	34.6	23.9	24.4	151.2	16.0	72.0
1949.....	331.1	3.6	54.2	25.8	18.5	21.1	135.5	14.7	57.5
1950.....	348.2	4.1	64.1	30.0	21.4	21.6	133.0	18.6	55.5
1951.....	363.2	4.3	63.1	31.0	24.5	22.6	140.0	21.2	56.6
1952.....	363.9	4.2	69.5	28.5	23.9	22.7	141.4	19.3	54.3
1953.....	340.5	3.8	64.2	26.5	19.1	20.5	135.4	18.3	52.7
1954.....	334.2	4.0	61.5	22.7	18.7	19.9	135.2	19.0	53.2
1955 (first half).....	210.2	2.8	40.9	14.9	12.4	11.7	81.8	12.8	32.8
<b>DISCONTINUED</b>									
1940.....	318.1	3.6	30.0	21.7	20.7	13.9	137.6	16.8	73.7
1945.....	175.6	3.0	16.9	26.4	13.5	7.8	59.2	11.2	33.3
1948.....	282.0	4.0	36.3	27.4	19.7	19.1	98.5	14.7	62.3
1949.....	306.5	4.5	40.7	30.8	21.0	18.0	115.5	15.5	60.7
1950.....	289.6	3.7	39.2	24.7	18.3	16.3	115.0	14.5	57.8
1951.....	309.3	3.7	46.7	26.4	23.4	15.2	123.7	16.1	54.1
1952.....	306.4	3.7	45.5	29.1	20.4	15.8	125.7	15.4	50.8
1953.....	334.0	3.7	50.6	31.5	23.9	17.8	138.5	15.4	52.6
1954.....	339.3	3.7	50.9	32.0	22.6	18.2	142.7	16.9	52.4
1955 (first half).....	165.4	2.0	25.7	15.0	10.1	8.8	69.7	8.1	25.0
<b>TRANSFERS</b>									
1945.....	473.2	2.4	9.9	21.3	11.9	15.7	307.6	21.5	82.9
1948.....	501.3	2.9	17.0	28.9	13.0	17.3	327.0	16.6	78.5
1949.....	434.7	2.4	15.7	21.9	11.1	16.0	286.1	15.5	60.0
1950.....	419.4	2.3	14.8	20.6	10.2	14.4	277.8	16.1	63.1
1951.....	378.3	2.1	12.7	16.9	8.5	11.6	253.8	15.3	57.3
1952.....	374.9	2.1	13.8	17.5	8.6	13.4	251.4	13.8	54.2
1953.....	356.2	1.9	14.1	16.4	8.1	12.8	237.6	12.9	52.4
1954.....	319.7	1.6	12.2	13.3	7.4	10.9	216.0	11.9	46.3
1955 (first half).....	170.3	0.9	6.6	7.5	4.2	6.0	117.7	6.9	26.4

ITEM	1945	1948	1949	1950	1951	1952	1953	1954	1955
New incorporations <sup>1</sup> .....	2,35.8	96.1	85.5	92.9	83.6	92.8	102.5	117.2	139.6

<sup>1</sup> Compiled by Dun and Bradstreet, Inc.

<sup>2</sup> 47 States (excludes Louisiana), for July to December only.

Source: Department of Commerce, Office of Business Economics; published periodically in *Survey of Current Business*.

No. 578.—NUMBER OF FIRMS IN OPERATION, 1949 TO 1951, AND NEW, DISCONTINUED, AND TRANSFERRED BUSINESSES, 1949 AND 1950, BY INDUSTRY

[In thousands. See headnote, table 577.]

INDUSTRY	FIRMS IN OPERATION JUNE 30—			NEW BUSI- NESSES		DISCONTINUED BUSINESSES		TRANSFERRED BUSINESSES	
	1949	1950	1951	1949	1950	1949	1950	1949	1950
	3,999.5	4,056.9	4,116.9	331.1	348.2	306.5	289.6	434.7	419.4
All industries.....	36.9	37.0	37.5	3.6	4.1	4.5	3.7	2.4	2.3
Mining and quarrying.....	348.8	374.5	300.7	54.2	64.1	40.7	39.2	15.7	14.8
Contract construction.....	320.4	321.1	328.8	25.8	30.0	30.8	24.7	21.9	20.6
Manufacturing.....	40.5	40.4	40.2	2.2	1.6	2.0	1.8	3.7	2.7
Food and kindred products.....	9.3	9.3	9.3	0.6	0.7	0.7	0.6	0.4	0.4
Textile-mill products.....	39.4	39.1	39.0	4.0	3.8	4.2	4.3	2.4	2.2
Apparel and other finished textile products.....	6.5	6.3	6.4	0.4	0.5	0.7	0.6	0.3	0.3
Leather and leather products.....	49.8	49.9	54.3	7.1	10.8	11.0	7.7	3.3	3.5
Lumber and timber basic products.....	12.9	12.8	12.7	1.0	0.9	1.3	0.9	1.0	0.9
Furniture and finished lumber products.....	3.9	3.9	3.9	0.2	0.2	0.2	0.1	0.1	0.1
Paper and allied products.....	41.2	41.9	42.2	2.1	1.9	1.4	1.4	3.2	3.0
Printing and publishing.....	11.8	11.9	12.1	0.7	0.7	0.7	0.5	0.6	0.6
Chemicals and allied products.....	1.0	1.0	1.1	0.1	0.1	(1)	0.1	0.1	0.1
Products of petroleum and coal.....	13.4	13.4	13.3	1.0	0.9	1.3	0.9	1.1	1.0
Stone, clay, and glass products.....	5.6	5.4	5.6	0.2	0.3	0.5	0.3	0.3	0.3
Primary metal industries.....	21.7	22.3	22.9	1.7	2.1	1.4	1.3	1.7	1.8
Fabricated metals.....	23.5	23.5	25.4	1.4	2.1	1.8	1.1	1.5	1.5
Machinery except electrical.....	4.8	5.0	5.3	0.4	0.5	0.4	0.3	0.2	0.2
Electrical machinery.....	5.2	5.1	5.2	0.8	0.4	0.6	0.4	0.3	0.3
Transportation equipment.....	4.3	4.4	4.4	0.8	0.3	0.3	0.2	0.2	0.2
Professional, scientific, and controlling instruments.....	1.1	1.1	1.2	0.1	0.1	0.1	0.1	0.1	0.1
Rubber products.....	24.3	24.4	24.4	2.1	2.1	2.5	2.0	1.6	1.5
Miscellaneous <sup>1</sup> .....	178.8	179.4	188.3	18.5	21.4	21.0	18.3	11.1	10.2
Transportation, communication, and other public utilities.....	262.1	265.3	273.7	21.1	21.6	18.0	16.3	16.0	14.4
Wholesale trade.....	1,703.7	1,817.4	1,830.4	135.5	133.0	115.5	115.0	286.1	277.8
Retail trade.....	72.4	73.8	74.7	3.3	3.2	2.2	2.1	5.3	5.2
General merchandise.....	338.6	341.4	341.3	18.7	15.9	17.3	16.1	53.8	49.9
Grocery, with and without meats.....	33.8	34.1	34.0	2.3	2.1	2.0	1.9	3.9	3.6
Meat and seafood.....	83.2	84.5	84.8	7.1	6.7	5.8	6.3	9.5	9.1
Other food.....	65.0	61.6	64.2	5.2	6.3	9.4	6.2	7.8	7.1
Motor vehicles.....	218.3	222.2	224.8	17.5	17.7	13.4	16.8	59.3	58.2
Filling stations.....	24.7	25.6	26.4	1.0	2.2	1.3	1.1	2.1	2.4
Automotive parts and accessories.....	86.0	87.8	89.2	6.9	7.3	5.1	5.0	6.5	7.0
Apparel.....	16.8	17.3	17.0	1.5	1.4	0.9	1.0	1.4	1.3
Shoes.....	25.8	27.3	28.2	2.3	2.8	1.4	1.2	1.9	2.1
Lumber and building materials.....	61.2	62.8	64.4	3.1	3.2	1.2	1.8	6.8	7.2
Hardware and farm implements.....	40.0	41.4	43.4	3.4	4.4	3.1	2.8	3.2	3.1
Appliances and radios.....	50.4	52.8	55.6	5.2	5.5	3.4	2.9	4.1	4.1
Home furnishings.....	364.5	367.0	365.6	35.5	33.5	32.9	33.3	90.3	86.8
Eating and drinking places.....	53.9	54.3	54.6	1.7	1.6	1.4	1.6	4.6	4.9
Drugs.....	31.3	33.4	34.5	3.5	2.6	1.5	1.2	6.4	6.7
Liquor.....	226.8	230.2	233.0	16.3	16.5	13.4	13.7	19.5	19.3
Miscellaneous retail.....	322.7	325.7	330.3	14.7	18.6	15.5	14.5	15.5	16.1
Finance, insurance, and real estate.....	736.2	735.5	736.3	57.5	55.5	60.7	57.8	66.0	63.1
Service industries.....	67.6	66.8	68.6	4.2	4.7	4.7	5.0	8.9	9.4
Hotels and other lodging places.....	91.0	91.0	91.5	6.4	5.7	6.3	5.4	11.1	10.4
Laundry, cleaning and garment repair.....	175.8	176.0	178.4	9.9	9.7	11.0	10.4	17.5	16.0
Barber and beauty shops.....	71.2	72.1	72.2	5.3	4.8	4.3	4.7	7.5	7.6
Other personal services.....	100.5	99.7	99.6	9.8	9.2	9.8	9.6	5.3	5.1
Business services.....	80.5	78.9	77.2	6.0	5.4	8.2	7.1	5.3	4.6
Automobile repair.....	86.0	84.6	83.9	7.0	7.8	10.1	8.8	4.7	4.3
Miscellaneous repair.....	13.6	14.3	14.5	1.3	1.4	0.6	0.7	1.1	1.2
Motion pictures.....	50.1	52.0	52.4	7.7	7.1	5.8	6.2	4.5	4.4
Other amusements.....									

<sup>1</sup> Less than 50.<sup>2</sup> Includes tobacco manufacturers.

## BUSINESS POPULATION

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No. 579.—NUMBER OF FIRMS IN OPERATION, JAN. 1, 1950, 1951, AND 1954, AND NUMBER OF NEW AND DISCONTINUED BUSINESSES, 1949 AND 1950, BY STATES AND REGIONS

[In thousands. Based on data from Bureau of Old-Age and Survivors Insurance. Firms doing business in more than 1 State counted only once and classified in State of firm's reporting headquarters]

REGION AND STATE	FIRMS IN OPERATION			NEW BUSINESSES		DISCONTINUED BUSINESSES	
	1950	1951	1954	1949	1950	1949	1950
<b>United States</b>	<b>4,008.7</b>	<b>4,067.3</b>	<b>4,185.3</b>	<b>331.1</b>	<b>348.2</b>	<b>306.5</b>	<b>289.6</b>
New England							
Connecticut	270.3	272.1	270.0	18.0	20.1	18.8	18.2
Maine	60.9	61.0	63.5	4.6	4.5	4.3	4.5
Massachusetts	27.2	27.8	27.3	1.8	2.1	2.0	1.8
New Hampshire	131.1	131.5	127.3	7.6	9.0	9.5	8.6
Rhode Island	17.0	17.4	16.7	1.5	1.5	1.3	1.2
Vermont	22.6	22.7	23.6	1.4	1.6	1.2	1.5
	11.4	11.7	11.5	1.1	0.9	0.4	0.6
Middle East	1,057.9	1,066.1	1,082.3	75.8	82.0	78.6	73.7
Delaware	9.3	9.3	9.6	0.7	0.7	0.6	0.7
District of Columbia	22.0	22.2	23.2	1.3	1.6	1.8	1.3
Maryland	51.6	52.9	58.4	3.9	4.7	4.0	3.4
New Jersey	149.7	151.3	154.3	10.4	11.4	9.1	9.8
New York	534.4	537.5	544.3	39.0	43.4	42.3	40.3
Pennsylvania	251.6	253.7	254.6	16.8	16.9	17.8	14.8
West Virginia	39.4	39.2	37.9	3.7	3.2	3.4	3.4
Southeast	608.1	628.0	687.3	61.5	65.2	44.2	45.3
Alabama	49.6	50.6	57.0	5.6	4.6	4.1	3.7
Arkansas	35.5	36.0	39.9	3.5	3.2	2.7	2.7
Florida	84.6	88.8	104.0	10.4	12.1	6.8	7.8
Georgia	63.5	65.6	75.1	6.9	7.3	4.8	5.2
Kentucky	52.5	54.7	55.7	4.9	5.1	4.8	2.8
Louisiana	52.6	54.2	62.0	5.4	5.8	4.7	4.2
Mississippi	32.6	33.3	32.9	3.0	3.0	1.8	2.3
North Carolina	71.8	74.2	83.0	7.2	6.7	4.1	4.2
South Carolina	36.0	37.4	40.8	3.4	3.6	1.9	2.2
Tennessee	61.0	61.7	62.6	5.8	6.2	3.5	5.4
Virginia	68.3	71.5	74.1	5.3	7.8	4.8	4.6
Southwest	300.7	310.4	336.8	33.4	33.0	23.9	23.3
Arizona	19.8	19.9	20.0	2.5	2.4	2.4	2.3
New Mexico	16.5	17.2	20.6	2.1	2.3	1.4	1.6
Oklahoma	54.5	55.2	59.9	5.0	5.7	3.9	4.0
Texas	200.9	217.2	236.4	23.9	22.7	16.2	15.4
Central	1,103.2	1,111.8	1,110.6	74.8	80.2	74.0	71.7
Illinois	271.3	270.1	258.9	17.0	18.1	19.2	19.4
Indiana	99.8	100.7	106.7	7.0	7.7	7.1	6.8
Iowa	78.4	79.1	82.0	5.1	5.0	4.0	4.4
Michigan	161.8	164.3	164.2	12.8	14.2	11.2	11.7
Minnesota	80.9	81.9	81.8	4.9	5.5	5.0	4.5
Missouri	109.8	111.5	117.3	8.0	8.8	7.8	7.1
Ohio	202.4	205.4	199.5	14.4	15.5	14.0	12.5
Wisconsin	98.9	98.9	99.4	5.7	5.5	5.6	5.4
Northwest	226.5	230.0	229.1	19.5	19.0	15.3	15.4
Colorado	38.3	39.3	39.6	4.1	4.2	3.0	3.3
Idaho	15.6	15.7	13.4	1.5	1.8	1.2	1.6
Kansas	57.2	58.6	63.4	4.5	4.2	3.6	2.8
Montana	18.2	18.0	16.1	1.4	1.4	1.5	1.5
Nebraska	39.2	39.3	37.4	2.8	2.6	2.1	2.5
North Dakota	15.1	15.4	15.0	1.2	1.0	1.3	0.7
South Dakota	18.6	18.8	19.4	1.5	1.4	0.9	1.2
Utah	15.5	15.8	16.4	1.5	1.5	1.0	1.1
Wyoming	8.7	9.0	8.4	1.0	0.9	0.7	0.6
Far West	442.1	448.8	469.3	48.0	48.7	51.8	42.0
California	322.6	327.3	342.9	35.8	34.8	39.5	30.1
Nevada	5.9	5.9	6.9	0.9	0.7	0.7	0.7
Oregon	48.4	50.2	51.9	4.8	6.7	5.6	5.0
Washington	65.2	65.5	67.6	6.5	6.4	5.9	6.2

Source: Department of Commerce, Office of Business Economics; *Survey of Current Business*, November 1954.

No. 580.—TREND OF MERGERS AND ACQUISITIONS OF CONCERN IN MANUFACTURING AND MINING INDUSTRIES: 1919 TO 1955

[Data limited to actions reported by Moody's Investors Service and Standard and Poor's Corporation. Includes a small number of nonmanufacturing concerns]

YEAR	Number	YEAR	Number	YEAR	Number	YEAR	Number
1919	438	1929	1,245	1939	87	1949	126
1920	760	1930	799	1940	140	1950	219
1921	487	1931	464	1941	111	1951	235
1922	309	1932	203	1942	118	1952	288
1923	311	1933	120	1943	213	1953	295
1924	368	1934	101	1944	324	1954	387
1925	554	1935	130	1945	333	1955 (prel.)	526
1926	856	1936	126	1946	419		
1927	870	1937	124	1947	404		
1928	1,058	1938	110	1948	223		

Source: Federal Trade Commission; *Report on Corporate Mergers and Acquisitions*, May 1955, a study issued as House Document No. 169, 84th Congress, 1st Session.

No. 581.—MERGERS AND ACQUISITIONS—MANUFACTURING AND MINING CONCERN ACQUIRED, BY SIZE OF ASSETS OF ACQUIRING CONCERN: 1940-1947 AND 1948-1954

[See headnote, table 580]

ASSETS OF ACQUIRING CONCERN	1940-1947		1948-1954	
	Number acquired	Percent	Number acquired	Percent
Total	2,062	100.0	1,773	100.0
Under \$1,000,000	239	11.6	56	3.2
\$1,000,000 to \$4,999,999	365	17.7	236	13.3
\$5,000,000 to \$9,999,999	264	12.8	246	13.9
\$10,000,000 to \$49,999,999	590	28.6	640	36.1
\$50,000,000 and over	604	29.3	522	29.4
Assets unknown			73	4.1

Source: Federal Trade Commission; *Report on Corporate Mergers and Acquisitions*, May 1955, a study issued as House Document No. 169, 84th Congress, 1st Session.

No. 582.—MERGERS AND ACQUISITIONS—ACQUIRING CONCERN IN MANUFACTURING AND MINING INDUSTRIES, BY INDUSTRY GROUP AND NUMBER OF CONCERN ACQUIRED: 1948-1954

[See headnote, table 580]

INDUSTRY GROUP OF ACQUIRING CONCERN	Number acquired	Total	CONCERNS ACQUIRING—			
			1 concern	2 concerns	3 concerns	4 or more concerns
Total	1,773	1,023	671	196	82	74
Mining	81	48	30	9	5	4
Manufacturing:						
Food and kindred products	243	100	56	19	13	12
Tobacco manufactures	4	4	4			
Textiles and apparel	117	74	55	10	5	4
Lumber and furniture	40	31	24	5	2	
Paper and allied products	60	42	30	8	2	
Printing and publishing	24	15	9	3	3	
Chemicals	168	73	42	14	5	12
Petroleum and coal products	35	23	15	6	1	1
Rubber products	23	13	7	5		1
Leather products	21	9	5	2		2
Stone, clay, and glass products	70	39	23	6	3	4
Primary metals	78	53	35	13	3	2
Fabricated metals	161	91	65	14	3	9
Machinery, except electrical	249	166	113	36	12	5
Electrical machinery	111	70	47	14	6	3
Transportation equipment	125	66	36	16	6	8
Professional and scientific instruments	47	24	13	5	3	3
Miscellaneous manufactures	20	18	17		1	
Nonmanufacturing	96	64	45	11	6	2

Source: Federal Trade Commission; *Report on Corporate Mergers and Acquisitions*, May 1955, a study issued as House Document No. 169, 84th Congress, 1st Session.

## EMPLOYERS UNDER SOCIAL SECURITY

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No. 583.—EMPLOYERS REPORTING UNDER SOCIAL SECURITY ACT, PAY-PERIOD EMPLOYMENT, AND TAXABLE WAGES, BY SIZE OF FIRM: FIRST QUARTER, 1945 TO 1953

Corrected to April 21, 1955. Data include only employers reporting taxable wages under old-age and survivors insurance provisions of the Social Security Act.

ITEM AND PERIOD JAN.-MAR.	Total	EMPLOYEE-SIZE CLASS OF FIRM <sup>1</sup>									
		0	1 to 3	4 to 7	8 to 19	20 to 49	50 to 99	100 to 499	500 to 999	1,000 to 9,999	10,000 or more
EMPLOYERS <sup>2</sup> (1,000)											
1945-----	2,001.0	23.3	1,174.3	404.0	233.4	100.5	34.0	25.6	3.2	2.6	0.2
1946-----	2,280.0	29.2	1,288.0	482.1	293.3	115.9	38.1	27.7	3.1	2.5	0.2
1947-----	2,486.7	40.4	1,415.7	519.6	314.8	121.6	39.6	28.9	3.3	2.8	0.2
1948-----	2,560.0	42.4	1,488.5	537.2	325.0	122.3	39.3	29.0	3.3	2.7	0.2
1949-----	2,639.3	50.0	1,544.8	555.4	317.1	120.0	38.4	27.7	3.1	2.6	0.2
1950 <sup>3</sup> -----	2,776.6	(4)	1,670.9	562.3	333.5	130.5	42.1	30.8	3.4	2.9	0.2
1953 <sup>3</sup> -----	2,813.4	(4)	1,682.4	572.8	340.7	135.8	43.0	31.1	3.5	2.9	0.2
PAY-PERIOD EMPLOYMENT <sup>4</sup> (1,000)											
1945-----	32,803	0	1,949	2,078	2,759	3,018	2,322	5,260	2,233	6,554	6,623
1946-----	32,483	0	2,194	2,507	3,496	3,483	2,611	5,581	2,157	6,183	4,270
1947-----	35,057	0	2,382	2,650	3,704	3,509	2,676	5,782	2,269	6,794	5,201
1948-----	35,805	0	2,497	2,739	3,832	3,662	2,690	5,779	2,281	6,812	5,513
1949-----	34,689	0	2,549	2,716	3,732	3,576	2,600	5,485	2,139	6,492	5,391
1950 <sup>3</sup> -----	38,101	0	2,775	2,890	3,987	3,028	2,885	6,122	2,311	7,110	6,084
1953 <sup>3</sup> -----	39,977	0	2,778	2,949	4,067	4,086	3,016	6,095	2,372	7,438	7,177
TAXABLE WAGES <sup>5</sup> (\$1,000,000)											
1945-----	17,038	23	662	793	1,148	1,408	1,165	2,740	1,242	4,043	4,715
1946-----	16,840	18	770	1,010	1,614	1,800	1,386	2,992	1,190	3,570	2,483
1947-----	20,805	28	950	1,193	1,917	2,086	1,505	3,642	1,437	4,534	3,523
1948-----	23,080	35	1,059	1,310	2,112	2,289	1,728	3,847	1,587	4,975	4,188
1949-----	23,376	42	1,121	1,366	2,204	2,360	1,769	3,754	1,523	4,940	4,297
1950 <sup>3</sup> -----	29,000	(4)	1,390	1,614	2,617	2,872	2,182	4,769	1,882	6,173	5,501
1953 <sup>3</sup> -----	34,030	(4)	1,525	1,708	2,023	3,271	2,502	5,244	2,141	7,165	7,460

<sup>1</sup> Measured by employer's pay-period employment.

<sup>2</sup> An employer is a legal entity, such as corporation, partnership, or single ownership, for which a single tax return is filed.

<sup>3</sup> Data for 1951 represent employers in the scope of 1st quarter 1951 *County Business Patterns*; data for 1953 represent employers in the "regular" group of first quarter 1953 *County Business Patterns*. These data are essentially comparable with those for previous years.

<sup>4</sup> Data for firm size "0" combined with size "1 to 3."

<sup>5</sup> Total number of workers employed during pay period ending nearest to Mar. 15.

<sup>6</sup> Wages paid by employers for covered employment during period, excluding wages over \$3,000 paid by any one employer to any worker in a calendar year prior to 1951, and over \$3,600 beginning 1951.

Source: Department of Health, Education, and Welfare, Social Security Administration, Bureau of Old-Age and Survivors Insurance.

No. 584.—REPORTING UNITS UNDER SOCIAL SECURITY ACT, EMPLOYMENT, AND TAXABLE PAYROLLS, BY STATES AND TERRITORIES: FIRST QUARTER, 1953

[**Payrolls in thousands of dollars.** Data are based on reports made under old-age and survivors insurance provisions of the Social Security Act. Employee figures are for mid-March pay period. Data exclude self-employed and railroad employees]

STATE OR TERRITORY	Employees, mid-March	Taxable payrolls, January-March	Total reporting units	NUMBER OF REPORTING UNITS, BY EMPLOYEE-SIZE CLASS					
				0 to 3	4 to 7	8 to 19	20 to 49	50 to 99	100 or more
				1,690,196	597,428	377,825	165,770	57,472	50,913
Total	39,865,871	33,976,498	2,939,604						
Alabama	518,426	347,780	37,396	19,044	9,293	5,305	2,323	743	688
Arizona	160,791	135,662	15,798	9,266	3,180	2,076	859	263	174
Arkansas	236,843	145,859	25,552	14,833	5,350	3,474	1,234	366	295
California	3,017,257	2,861,163	243,411	142,964	46,658	31,262	14,090	4,659	3,769
Colorado	296,488	238,825	30,335	17,343	6,771	3,808	1,505	511	337
Connecticut	754,296	687,066	44,638	27,098	7,634	5,614	2,451	881	960
Delaware	116,118	106,751	7,172	3,960	1,442	1,023	450	130	158
District of Columbia	228,886	188,888	17,971	9,824	3,508	2,700	1,224	426	290
Florida	689,419	474,032	70,260	38,534	16,615	9,096	3,808	1,354	853
Georgia	710,045	460,548	50,290	24,547	12,860	7,535	3,223	1,144	981
Idaho	95,249	74,633	11,813	6,994	2,404	1,573	579	168	95
Illinois	2,839,123	2,606,793	109,050	109,424	35,361	22,298	10,220	3,898	3,849
Indiana	1,207,013	1,079,237	73,533	41,227	16,525	9,009	3,980	1,372	1,420
Iowa	477,604	357,707	54,886	33,960	11,784	5,863	2,148	644	437
Kansas	400,808	318,573	41,386	24,150	9,620	4,805	1,862	564	386
Kentucky	475,206	386,510	39,024	22,410	7,770	5,398	2,127	669	652
Louisiana	527,504	380,199	40,218	21,713	8,114	6,170	2,611	877	733
Maine	203,100	142,659	18,769	11,551	3,735	2,112	812	274	285
Maryland	620,512	491,285	39,519	20,974	8,355	5,915	2,620	887	750
Massachusetts	1,485,098	1,201,582	93,907	51,639	10,120	12,940	5,874	2,124	2,201
Michigan	2,133,135	2,188,460	116,045	65,875	25,800	13,554	6,296	2,236	2,284
Minnesota	638,717	526,753	57,681	33,613	12,465	7,009	2,911	936	747
Mississippi	247,757	140,158	24,082	12,601	5,921	3,495	1,342	426	297
Missouri	1,046,741	834,164	79,383	45,481	17,217	9,324	4,342	1,612	1,407
Montana	100,189	81,679	13,719	8,286	2,897	1,700	615	148	73
Nebraska	237,364	170,346	28,152	16,946	6,281	3,086	1,197	406	236
Nevada	49,359	46,440	4,787	2,734	972	688	249	80	64
New Hampshire	140,875	99,126	11,904	7,284	2,149	1,459	574	196	242
New Jersey	1,665,935	1,437,107	105,495	65,014	17,508	12,734	5,857	2,183	2,109
New Mexico	113,341	90,388	12,553	6,912	2,740	1,906	675	207	113
New York	4,034,176	4,492,118	370,421	226,598	60,766	46,655	22,598	7,714	6,095
North Carolina	832,627	538,927	56,520	28,397	13,773	8,317	3,555	1,274	1,204
North Dakota	64,128	43,825	10,812	6,651	2,371	1,182	471	105	32
Ohio	2,594,146	2,439,857	149,501	85,065	29,275	19,813	8,796	3,196	3,356
Oklahoma	392,124	308,173	40,925	23,159	9,384	5,187	2,158	617	420
Oregon	351,304	311,544	36,283	22,021	6,643	4,582	1,964	643	430
Pennsylvania	3,194,280	2,719,533	182,631	102,161	36,458	24,187	10,939	4,401	4,435
Rhode Island	254,621	195,849	16,226	9,534	2,709	2,109	1,019	403	392
South Carolina	436,590	295,221	27,857	14,249	7,043	4,007	1,556	470	532
South Dakota	77,641	50,819	12,684	7,900	2,752	1,373	484	100	45
Tennessee	651,480	458,202	46,810	24,727	11,078	6,400	2,606	994	906
Texas	1,777,010	1,375,025	157,147	87,333	35,048	19,844	8,721	3,037	2,264
Utah	135,973	112,532	12,505	6,929	2,624	1,813	734	240	165
Vermont	74,264	56,112	7,664	4,729	1,402	906	408	118	106
Virginia	671,685	458,780	52,275	27,357	12,020	7,868	3,137	1,043	850
Washington	532,670	486,200	49,175	29,558	9,333	6,155	2,660	830	639
West Virginia	411,607	346,501	28,006	16,195	6,353	3,616	1,418	468	556
Wisconsin	896,839	781,888	69,439	41,697	13,763	8,415	3,303	1,116	1,145
Wyoming	52,280	43,900	6,975	4,022	1,472	1,007	347	89	38
Alaska	19,355	23,913	2,454	1,433	517	332	115	36	21
Hawaii	93,333	68,951	7,577	4,207	1,582	1,074	426	153	135

<sup>1</sup> Includes covered employment on ocean-borne vessels; not included in State figures.

Source: Department of Commerce, Bureau of the Census, and Department of Health, Education, and Welfare, Social Security Administration, Bureau of Old-Age and Survivors Insurance; cooperative report, *County Business Patterns, First Quarter, 1953*, Part 1, U. S. Summary.

No. 585.—CORPORATION ASSETS AND LIABILITIES: 1930 TO 1952  
 [Money figures in millions of dollars. See headnote, table 587]

ITEM	1930	1935	1940	1945	1950	1951	1952
Returns of active corporations, number	463,036	477,113	473,042	421,125	629,314	652,376	672,071
Balance sheets, number <sup>1</sup>	403,173	415,205	413,716	374,050	569,961	566,385	615,698
<b>Total assets or liabilities<sup>2</sup></b>	<b>334,002</b>	<b>303,150</b>	<b>320,478</b>	<b>441,461</b>	<b>598,369</b>	<b>647,524</b>	<b>721,864</b>
ASSETS							
Cash	21,012	23,664	41,423	57,717	71,018	76,853	79,597
Notes and accounts receivable <sup>3</sup>	59,675	38,690	42,864	51,630	108,639	119,314	140,901
Inventories	18,771	14,788	19,463	26,067	54,496	63,776	64,520
Investments, government obligations <sup>4</sup>	10,228	21,863	20,570	129,935	109,822	108,939	120,303
Other investments	83,809	90,163	80,429	74,026	96,780	104,883	132,512
Capital assets <sup>5</sup>	120,994	100,480	100,214	92,057	144,690	159,325	169,546
Other assets	10,511	13,501	6,514	10,029	12,944	14,434	14,485
LIABILITIES							
Notes and accounts payable <sup>6</sup>	26,870	25,332	22,683	24,663	47,143	52,592	56,823
Bonded debt and mortgages <sup>7</sup>	50,282	49,822	49,100	40,087	65,719	72,835	80,628
Other liabilities	95,568	89,066	110,210	221,286	261,899	283,058	330,406
Capital stock: <sup>8</sup>							
Preferred	19,117	19,533	17,138	14,764	14,906	15,505	15,831
Common	87,067	82,733	72,292	64,747	79,310	82,804	85,365
Surplus and undivided profits <sup>9</sup>	61,832	48,828	61,033	83,585	137,361	148,080	159,935
Deficit <sup>10</sup>	6,734	12,163	12,076	8,571	7,968	7,411	7,125
Net surplus	55,098	36,665	48,957	75,014	129,393	140,639	152,810

<sup>1</sup> Excludes returns with fragmentary balance sheet data.

<sup>2</sup> Adjustments are made in tabulating data as follows: (a) Reserves for depreciation, depletion, amortization, and bad debts, when reported under liabilities are used to reduce corresponding asset account, and "Total assets" and "Total liabilities" are decreased by amount of such reserves; and (b) a deficit in surplus, reported under assets, is transferred to liabilities, and "Total assets" and "Total liabilities" are decreased by amount of deficit.

<sup>3</sup> Less reserve for bad debts. Includes loans and discounts of banks.

<sup>4</sup> Comprises obligations of United States or any agency or instrumentality thereof; obligations of States, Territories, and political subdivisions thereof, District of Columbia, and United States possessions.

<sup>5</sup> Less depreciation and depletion reserves. Includes land.

<sup>6</sup> Beginning 1940, includes bonds, notes, and mortgages payable, with original maturity of less than 1 year.

<sup>7</sup> Beginning 1940, represents "Bonded debt and mortgages" with original maturity of 1 year or more.

<sup>8</sup> For balance sheets in which common and preferred stock are not reported separately, combined amount is tabulated as "Common stock."

<sup>9</sup> Comprises sum of positive amounts of "Paid-in or capital surplus," "Earned surplus and undivided profits," and "Surplus reserves."

<sup>10</sup> Comprises negative amounts for "Earned surplus and undivided profits."

Source: Treasury Department, Internal Revenue Service; *Statistics of Income*, Part 2.

No. 586.—CURRENT ASSETS AND LIABILITIES OF U. S. CORPORATIONS: 1945 TO 1955

[In billions of dollars. As of December 31. Covers all U. S. corporations excluding banks and insurance companies. 1945-1953 based on Bureau of Internal Revenue *Statistics of Income*, covering virtually all corporations in United States; for 1954-55 estimated (subject to revision), based on data compiled from many different sources, including data on corporations registered with Securities and Exchange Commission]

ASSETS AND LIABILITIES	1945	1946	1947	1948	1949	1950	1951	1952	1953	1954	1955
<b>Current assets, total</b>	<b>97.4</b>	<b>108.1</b>	<b>123.6</b>	<b>133.0</b>	<b>133.1</b>	<b>161.5</b>	<b>179.1</b>	<b>186.2</b>	<b>189.6</b>	<b>187.3</b>	<b>206.6</b>
Cash on hand and in banks	21.7	22.8	25.0	25.3	26.5	28.1	30.0	30.8	30.9	31.7	32.2
U. S. Government securities	21.1	15.3	14.1	14.8	16.8	19.7	20.7	19.9	21.0	19.3	23.4
Receivables from U. S. Government <sup>1</sup>	2.7	7.7	38.3	42.4	43.0	1.1	2.7	2.8	2.6	2.4	2.3
Other notes and accounts receivable	23.2	30.0	38.3	42.4	43.0	55.7	58.8	64.6	64.8	66.2	76.0
Inventories	26.3	37.6	44.6	48.9	45.3	55.1	64.9	65.8	67.9	65.1	69.8
Other current assets <sup>2</sup>	2.4	1.7	1.6	1.6	1.4	1.7	2.1	2.4	2.4	2.6	2.9
<b>Current liabilities, total</b>	<b>45.8</b>	<b>51.9</b>	<b>61.5</b>	<b>64.4</b>	<b>60.7</b>	<b>79.8</b>	<b>92.6</b>	<b>96.1</b>	<b>97.0</b>	<b>91.5</b>	<b>103.0</b>
Advances and prepayments, U. S. Government <sup>3</sup>	.9	1	37.6	39.4	37.5	{ .4	1.3	2.3	2.2	2.4	2.3
Other notes and accounts payable	24.8	31.5	38.3	42.4	43.0	47.9	53.6	57.0	56.3	54.0	61.6
Federal income tax liabilities	10.4	8.5	10.7	11.5	9.3	16.7	21.3	18.1	19.2	15.7	18.5
Other current liabilities	9.7	11.8	13.2	13.5	14.0	14.9	16.5	18.7	19.3	19.4	20.7
<b>Net working capital</b>	<b>51.6</b>	<b>60.2</b>	<b>62.1</b>	<b>68.6</b>	<b>72.4</b>	<b>81.6</b>	<b>86.5</b>	<b>90.1</b>	<b>92.6</b>	<b>95.8</b>	<b>103.6</b>

<sup>1</sup> Receivables from and payables to U. S. Government exclude amounts offsetting each other on corporation's books or amounts arising from subcontracting not directly due from or to U. S. Government. Wherever possible, adjustments have been made to include U. S. Government advances offsetting inventories on corporation's books.

<sup>2</sup> Includes marketable securities other than U. S. Government.

Source: Securities and Exchange Commission; Statistical Series, *Net Working Capital of U. S. Corporation*. Data are published quarterly.

## No. 587.—CORPORATION RECEIPTS, DEDUCTIONS, PROFITS, AND TAX: 1925 TO 1952

**In millions of dollars.** Includes data for Alaska, District of Columbia, and Hawaii; based on income tax returns as filed, prior to audit adjustments or other changes made after the returns were filed, as the result of carry-backs, relief granted under section 722 of the Internal Revenue Code, recomputation of amortization of emergency facilities, or renegotiation of war contracts. All corporations are required to file returns except those specifically exempt, such as mutual, fraternal, civic, and charitable organizations not operating for profit. Returns of inactive corporations are excluded from these tabulations. In comparing data over a period of years, changes in law must be taken into consideration, especially discontinuance for 1934-41 of privilege of filing consolidated returns (except by railroad corporations) and their related holding or leasing companies and, in 1940-41, by Pan American trade-corporations and the restoration of this privilege in 1942. See source publications for effect of changes on statistical items. Data represent combined totals for returns reporting net income and those reporting no net income. For number of returns, see table 437, p. 372.]

ITEM	1925	1930	1935	1940	1945	1950	1951	1952
<b>Compiled receipts, total<sup>1</sup></b>	<b>134,780</b>	<b>136,588</b>	<b>114,650</b>	<b>148,237</b>	<b>255,448</b>	<b>458,130</b>	<b>517,039</b>	<b>531,307</b>
Gross sales	106,832	97,941	85,832	114,642	203,575	374,406	421,922	420,514
Gross receipts from other operations	( <sup>2</sup> )	25,287	19,790	24,483	40,455	65,475	75,281	79,805
Other receipts	26,253	10,283	5,801	8,329	10,904	17,854	19,434	21,594
Tax-exempt income:								
Dividends from domestic corporations	1,175	2,571	3,014	( <sup>3</sup> )	( <sup>4</sup> )	( <sup>5</sup> )	( <sup>6</sup> )	( <sup>7</sup> )
Interest on Government obligation <sup>8</sup>	520	526	714	783	513	394	403	304
<b>Compiled deductions, total<sup>9</sup></b>	<b>125,464</b>	<b>131,940</b>	<b>109,227</b>	<b>138,889</b>	<b>234,102</b>	<b>415,299</b>	<b>473,240</b>	<b>492,572</b>
Cost of goods sold	84,716	76,190	66,270	86,739	157,377	284,699	323,441	330,821
Cost of operations	( <sup>2</sup> )	( <sup>2</sup> )	9,190	12,297	22,666	36,558	43,110	45,366
Interest paid	3,617	4,861	3,261	2,701	2,308	3,212	3,701	5,013
Taxes paid <sup>10</sup>	( <sup>2</sup> )	2,297	2,628	4,317	5,585	9,013	11,031	11,697
Depreciation and depletion <sup>11</sup>	3,330	4,449	3,701	4,003	6,620	9,611	11,206	12,562
Other deductions	33,801	44,142	24,107	28,832	39,546	72,208	80,751	87,113
Compiled net profit or loss <sup>12</sup>	9,316	4,649	5,423	9,348	21,345	42,831	43,800	38,735
Net income or deficit <sup>10</sup>	7,621	1,551	1,606	8,919	21,139	42,613	43,546	38,456
Deduction due to net loss for prior year <sup>11</sup>	243	158	—	123	114	345	402	396
Total tax <sup>12</sup>	1,170	712	735	2,549	10,705	17,317	22,082	19,148
Compiled net profit less total tax	8,446	3,987	4,688	6,800	10,551	25,514	21,717	19,588
Dividends paid:								
Cash	5,190	8,184	5,941	6,089	6,081	11,553	11,209	11,263
Stock	544	414	136	140	334	1,292	1,420	1,364

<sup>1</sup> Comprises gross sales (less returns and allowances), gross receipts from operations (where inventories are not an income-determining factor), all interest received on Government obligations (less amortizable bond premium), other interest, rents, royalties, excess of net short-term capital gain over net long-term capital loss, excess of net long-term capital gain over net short-term capital loss, net gain from sale or exchange of property other than capital assets, dividends, and other taxable income. Excludes nontaxable income other than tax-exempt interest received on certain Government obligations.

<sup>2</sup> Not available.

<sup>3</sup> Beginning 1936, "Dividends from domestic corporations" are taxable income, tabulated with "Other receipts."

<sup>4</sup> Beginning 1934, includes in addition to the wholly tax-exempt interest, that which is partially tax-exempt. Interest on Treasury notes issued on or after Dec. 1, 1940, and obligations issued on or after Mar. 1, 1941, by the United States or any agency or instrumentality thereof, is wholly taxable and is included in "Other receipts" for 1941-52.

<sup>5</sup> Beginning 1936, includes contributions or gifts (limited to 5 percent of net income before this deduction).

<sup>6</sup> Excludes (a) Federal income tax and Federal excess-profits taxes; (b) estate, inheritance, legacy, succession, and gift taxes; (c) income taxes paid to a foreign country or possession of United States, if any portion is claimed as a tax credit; (d) taxes assessed against local benefits; (e) Federal taxes paid on tax-free covenant bonds; and (f) taxes reported in "Cost of goods sold" and "Cost of operations." Beginning 1951, identifiable amounts of taxes included in "Cost of goods sold" and "Cost of operations" are transferred to "Taxes paid."

<sup>7</sup> Tabulated with "Other deductions."

<sup>8</sup> Beginning 1940, includes amortization of emergency facilities.

<sup>9</sup> Compiled receipts less compiled deductions.

<sup>10</sup> Net income (or deficit), in general, represents taxable income less allowable deductions, except that for 1925 and 1930, and for 1940-52, amount shown is before deduction due to net operating loss of prior years.

<sup>11</sup> Deducted by corporations reporting net income.

<sup>12</sup> In addition to income tax, includes: Declared value excess-profits tax, 1933-45; defense tax, 1940; and excess profits tax under (a) provisions of Second Revenue Act of 1940, 1940-46, and (b) Excess Profits Tax Act of 1950, beginning July 1, 1950.

Source: Treasury Department, Internal Revenue Service; *Statistics of Income*, Part 2.

## No. 588.—CORPORATION INCOME TAX RETURNS, BY TOTAL ASSETS CLASSES, BY INDUSTRIAL DIVISIONS: 1952

[All money figures in millions of dollars. Excludes returns of inactive corporations and returns on which balance sheet data are incomplete. See headnote, table 587.]

TOTAL ASSETS CLASS	Number of returns	Total assets or liabilities <sup>1</sup>	Total compiled receipts <sup>2</sup>	Net income or deficit <sup>3</sup>	Total tax <sup>4</sup>	Number of returns	Total assets or liabilities <sup>1</sup>	Total compiled receipts <sup>2</sup>	Net income or deficit <sup>3</sup>	Total tax <sup>4</sup>	
All industrial divisions											
<b>Total</b>		615,698	721,864	525,011	38,228	19,002	7,738	2,355	2,500	139	77
Under \$50,000	263,029	5,429	13,905	46	97	2,496	57	117	1	1	
\$50,000 to \$99,999	109,780	7,939	16,711	389	166	1,650	119	176	1	2	
\$100,000 to \$249,999	122,123	19,362	39,489	1,099	451	2,013	317	528	10	6	
\$250,000 to \$499,999	52,975	18,571	36,678	1,142	545	778	276	235	9	5	
\$500,000 to \$999,999	31,290	21,847	37,896	1,460	762	472	331	269	12	8	
\$1,000,000 to \$4,999,999	33,579	72,580	81,150	4,386	2,351	294	571	427	26	16	
\$5,000,000 to \$9,999,999	6,139	42,817	32,718	2,182	1,188	27	192	141	7	4	
\$10,000,000 to \$49,999,999	5,220	104,753	71,725	5,899	3,122	7	117	103	10	5	
\$50,000,000 and over	1,562	428,605	194,739	21,625	10,320	1	376	506	67	31	
Agriculture, forestry, and fishery											
<b>Total</b>											
Under \$50,000	7,998	12,034	9,475	973	504	29,433	7,307	15,047	595	304	
\$50,000 to \$99,999	2,545	52	101	5	1	13,426	269	1,069	4	6	
\$100,000 to \$249,999	1,152	82	114	5	1	5,418	398	1,122	30	12	
\$250,000 to \$499,999	1,524	250	304	8	6	5,763	902	2,313	67	27	
\$500,000 to \$999,999	1,009	365	413	9	9	2,352	822	1,089	64	31	
\$1,000,000 to \$4,999,999	677	480	537	21	15	1,335	919	2,005	81	43	
\$5,000,000 to \$9,999,999	799	1,675	1,518	84	50	976	1,874	3,403	167	87	
\$10,000,000 to \$49,999,999	121	862	623	40	24	96	660	1,021	43	23	
\$50,000,000 and over	134	3,059	2,000	152	86	63	1,171	1,742	102	57	
	37	5,209	3,803	668	312	4	292	382	36	17	
Mining and quarrying											
<b>Total</b>											
Under \$50,000	7,998	12,034	9,475	973	504	29,433	7,307	15,047	595	304	
\$50,000 to \$99,999	2,545	52	101	5	1	13,426	269	1,069	4	6	
\$100,000 to \$249,999	1,152	82	114	5	1	5,418	398	1,122	30	12	
\$250,000 to \$499,999	1,524	250	304	8	6	5,763	902	2,313	67	27	
\$500,000 to \$999,999	1,009	365	413	9	9	2,352	822	1,089	64	31	
\$1,000,000 to \$4,999,999	677	480	537	21	15	1,335	919	2,005	81	43	
\$5,000,000 to \$9,999,999	799	1,675	1,518	84	50	976	1,874	3,403	167	87	
\$10,000,000 to \$49,999,999	121	862	623	40	24	96	660	1,021	43	23	
\$50,000,000 and over	134	3,059	2,000	152	86	63	1,171	1,742	102	57	
	37	5,209	3,803	668	312	4	292	382	36	17	
Manufacturing											
<b>Total</b>											
Under \$50,000	113,711	170,282	258,969	20,223	11,348	25,139	90,041	38,348	4,899	2,472	
\$50,000 to \$99,999	38,146	842	2,492	22	16	11,975	241	518	4	4	
\$100,000 to \$249,999	18,282	1,337	3,363	68	35	4,145	297	526	18	8	
\$250,000 to \$499,999	23,683	3,794	9,438	266	126	3,951	616	953	43	18	
\$500,000 to \$999,999	12,786	4,510	10,576	379	209	1,745	616	935	44	21	
\$1,000,000 to \$4,999,999	8,571	6,018	13,342	612	351	1,215	859	1,201	69	38	
\$5,000,000 to \$9,999,999	9,019	19,040	36,687	2,274	1,324	1,323	2,811	3,078	226	123	
\$10,000,000 to \$49,999,999	1,471	10,328	17,004	1,334	799	227	1,644	1,121	112	60	
\$50,000,000 and over	1,359	27,772	42,220	3,729	2,148	310	6,704	3,515	418	217	
	394	96,641	123,838	11,583	6,359	248	76,253	26,500	3,965	1,984	
Trade											
<b>Total</b>											
Under \$50,000	205,848	55,792	166,063	4,886	2,226	166,749	374,891	23,343	6,393	1,745	
\$50,000 to \$99,999	87,699	2,018	7,587	(6)	33	59,920	1,328	505	62	23	
\$100,000 to \$249,999	40,512	2,938	9,705	138	59	29,123	2,089	526	93	32	
\$250,000 to \$499,999	44,866	7,094	23,034	420	162	32,432	5,153	1,086	202	72	
\$500,000 to \$999,999	17,675	6,143	20,532	415	180	14,194	4,986	900	172	64	
\$1,000,000 to \$4,999,999	8,595	5,931	18,618	442	215	9,112	5,398	886	163	63	
\$5,000,000 to \$9,999,999	5,565	10,687	31,453	893	464	14,643	33,937	2,550	549	196	
\$10,000,000 to \$49,999,999	537	3,688	10,590	286	154	3,555	24,739	1,472	298	107	
\$50,000,000 and over	327	6,068	17,164	532	275	2,974	58,945	3,888	873	285	
	72	11,226	27,380	1,258	684	796	237,308	11,530	3,981	902	
Services											
<b>Total</b>											
Under \$50,000	54,690	8,916	11,168	619	324	4,392	246	97	2	4	
\$50,000 to \$99,999	33,173	556	1,496	4	13	3,649	36	19	52	(6)	
\$100,000 to \$249,999	9,146	655	1,169	44	16	352	24	9	51	(6)	
\$250,000 to \$499,999	7,696	1,208	1,826	83	34	195	30	9	1	(6)	
\$500,000 to \$999,999	2,325	800	1,079	54	25	112	42	19	(6)	(6)	
\$1,000,000 to \$4,999,999	1,259	874	1,028	60	30	54	38	10	1	(6)	
\$5,000,000 to \$9,999,999	933	1,896	2,030	167	91	27	49	4	(6)	(6)	
\$10,000,000 to \$49,999,999	103	691	738	62	37	2	13	8	(6)	(6)	
\$50,000,000 and over	45	903	1,004	80	48	1	14	20	3	1	
	10	1,302	800	65	31						
Nature of business not allocable											

<sup>1</sup> See footnote 2, table 585.

<sup>2</sup> For items included in "Total compiled receipts," see footnote 1, table 587.

<sup>3</sup> Compiled receipts (exclusive of wholly tax-exempt interest) less compiled deductions. See table 587.

<sup>4</sup> Includes income and excess profits tax. <sup>5</sup> Deficit. <sup>6</sup> Less than \$500,000.

Source: Treasury Department, Internal Revenue Service; *Statistics of Income*, Part 2.

## No. 589.—INCOME OF UNINCORPORATED ENTERPRISES, BY INDUSTRY: 1940 TO 1954

(In millions of dollars. Data represent net income of sole proprietorships and partnerships except that the trade figures include estimated patronage refunds and stock dividends paid by farmers' cooperatives. Income equals business receipts (exclusive of capital gains and expenses) less business expenses (exclusive of capital losses and depletion allowances)]

INDUSTRY	1940	1945	1950	1951	1952	1953	1954
All industries, total	13,055	30,941	37,274	41,153	39,793	38,363	37,950
Agriculture, forestry, and fisheries	4,633	11,972	13,532	16,305	14,592	12,587	12,349
Mining	50	108	213	219	197	215	200
Contract construction	680	1,088	2,739	2,714	2,824	2,974	2,212
Manufacturing	515	2,361	1,728	1,578	1,306	1,070	804
Wholesale and retail trade	3,863	9,676	11,156	12,005	12,091	12,237	11,707
Finance, insurance, and real estate	365	757	966	1,021	1,007	1,069	1,250
Transportation	285	420	607	688	741	812	806
Communications and public utilities	7	23	29	29	30	30	31
Services	2,630	4,530	6,274	6,594	7,005	7,360	7,391

Source: Department of Commerce, Office of Business Economics; *Survey of Current Business*, July 1955, and *National Income Supplement*, 1954.

## No. 590.—CORPORATE INCOME BEFORE FEDERAL AND STATE INCOME AND EXCESS PROFITS TAXES, BY INDUSTRY: 1940 TO 1954

(In millions of dollars. Data represent earnings of corporations organized for profit which accrue to residents of the Nation, measured before Federal and State profit taxes, without deduction of depletion charges and exclusive of capital gains and losses. Profits accruing to residents are measured by eliminating intercorporate dividends from profits of domestic corporations and by adding the net receipts of dividends and branch profits from abroad. In other major respects, the definition of income is in accordance with Federal income tax regulations. The inclusion of depletion charges has an important effect on data for mining industries)

INDUSTRY	1940	1945	1950	1951	1952	1953	1954
All industries, total	9,320	18,977	39,970	41,173	35,936	38,274	34,042
Agriculture, forestry, and fisheries	15	63	157	95	38	42	41
Farms	18	89	157	94	37	(1)	(1)
Agricultural services, forestry, and fisheries	-3	4	0	1	1	(1)	(1)
Mining	418	347	1,374	1,418	1,249	1,339	1,258
Contract construction	70	89	541	533	569	634	583
Manufacturing	5,503	9,933	23,280	24,512	19,958	21,420	17,824
Food and kindred products	505	1,438	1,815	1,599	1,553	(1)	(1)
Textile-mill products	218	727	1,237	970	826	(1)	(1)
Chemicals and allied products	643	980	2,625	2,823	2,156	(1)	(1)
Products of petroleum and coal	277	437	1,726	2,183	1,542	(1)	(1)
Metals, metal products, and miscellaneous	976	1,708	4,425	5,267	3,479	(1)	(1)
Machinery, except electrical	672	849	1,904	2,617	2,392	(1)	(1)
Transportation equipment, except automobiles	267	940	364	436	612	(1)	(1)
Automobiles and automobile equipment	530	164	3,279	2,507	2,380	(1)	(1)
Other	1,362	2,683	5,815	6,101	5,309	(1)	(1)
Wholesale and retail trade	1,124	3,429	6,276	5,446	4,382	4,566	4,074
Wholesale trade	495	1,304	2,860	2,735	1,931	(1)	(1)
Retail trade and automotive services	620	2,116	3,416	2,711	2,451	(1)	(1)
Finance, insurance, and real estate	409	1,490	2,662	2,800	3,282	3,704	3,702
Transportation	335	1,330	1,996	1,981	1,827	1,643	1,010
Communications and public utilities	1,021	1,472	2,189	2,635	2,066	3,298	3,581
Services	105	575	495	558	544	548	503
Rest of the world	234	228	1,000	1,215	1,121	1,082	1,366

<sup>1</sup> Not available.

<sup>2</sup> 1940 and 1945 not fully comparable with figures shown for later years. See source.

Source: Department of Commerce, Office of Business Economics; *Survey of Current Business*, July 1955, and *National Income Supplement*, 1954.

## No. 591.—CORPORATE PROFITS, TAXES AND DIVIDENDS: 1940 TO 1955

[In billions of dollars. Data for 1953 to 1955 subject to revision; see July issue of *Survey of Current Business*. See headnote, table 590. Taxes refer to Federal and State taxes on corporate earnings. Disbursements of tax refunds have been deducted from tax liability in year in which tax liability was incurred. Dividends represent amount of cash dividends disbursed to residents of the Nation, and therefore are measured after elimination of intercorporate dividends. Undistributed profits comprise difference between corporate profits after taxes and net dividend payments. Quarterly data are seasonally adjusted at annual rates.]

YEAR AND QUARTER	Profits before taxes	Income tax liability	Profits after taxes	Dividends	Undistributed profits
1940.....	9.3	2.8	6.5	4.0	2.4
1945.....	19.0	10.7	8.3	4.7	3.6
1946.....	22.6	9.1	13.4	5.8	7.7
1947.....	29.5	11.3	18.2	6.5	11.7
1948.....	32.8	12.5	20.3	7.2	13.0
1949.....	26.2	10.4	15.8	7.5	8.3
1950.....	40.0	17.8	22.1	9.2	12.9
1951.....	41.2	22.5	18.7	9.1	9.6
1952.....	35.9	19.8	16.1	9.0	7.1
1953.....	38.3	21.3	17.0	9.3	7.7
1954.....	34.0	17.1	17.0	10.0	7.0
1st quarter.....	32.7	16.4	16.3	9.7	6.6
2d quarter.....	33.7	16.9	16.8	9.8	7.0
3d quarter.....	33.5	16.8	16.7	10.0	6.7
4th quarter.....	36.0	18.1	17.9	10.6	7.3
1955.....	43.8	22.0	21.8	11.2	10.6
1st quarter.....	40.9	20.5	20.4	10.2	10.2
2d quarter.....	43.0	21.6	21.4	10.7	10.7
3d quarter.....	44.5	22.3	22.2	11.0	11.1
4th quarter.....	46.8	23.5	23.3	12.2	11.1

Source: Department of Commerce, Office of Business Economics; *Survey of Current Business*, July 1955 and May 1956, and *National Income Supplement*, 1954.

## No. 592.—PROFITS AND DIVIDENDS OF PUBLIC UTILITY CORPORATIONS: 1942 TO 1955

[In millions of dollars]

YEAR AND QUARTER	RAILROAD 1				ELECTRIC POWER 4				TELEPHONE 5			
	Oper- ating re- venue	Profits before taxes <sup>2</sup>	Profits after taxes <sup>3</sup>	Divi- dends	Oper- ating re- venue	Profits before taxes <sup>2</sup>	Profits after taxes <sup>3</sup>	Divi- dends	Oper- ating re- venue	Profits before taxes <sup>2</sup>	Profits after taxes <sup>3</sup>	Divi- dends
1942.....	7,466	1,658	902	202	3,216	847	490	408	1,508	364	168	151
1943.....	9,055	2,211	873	217	3,464	913	502	410	1,691	420	176	156
1944.....	9,437	1,972	667	246	3,615	902	507	398	1,815	451	168	155
1945.....	8,902	756	450	246	3,681	905	534	407	1,979	433	174	162
1946.....	7,628	271	287	235	3,815	964	638	458	2,148	313	209	168
1947.....	8,685	777	479	236	4,291	954	643	494	2,283	215	138	131
1948.....	9,672	1,146	698	280	4,830	983	657	493	2,694	292	186	178
1949.....	8,580	700	438	252	5,069	1,129	757	560	2,997	333	207	213
1950.....	9,473	1,385	784	312	5,528	1,313	822	619	3,342	580	331	276
1951.....	10,391	1,260	693	328	6,058	1,482	814	651	3,729	691	341	318
1952.....	10,581	1,451	832	338	6,549	1,740	947	725	4,136	787	384	355
1953.....	10,664	1,404	871	412	7,136	1,895	1,030	780	4,525	925	452	412
1954.....	9,371	900	674	379	7,610	2,049	1,140	857	4,902	1,050	525	448
1st quarter.....	2,275	156	88	96	1,984	570	321	212	1,174	424	116	109
2d quarter.....	2,335	109	136	73	1,819	487	266	210	1,210	282	125	111
3d quarter.....	2,366	226	172	74	1,831	478	264	211	1,233	262	141	112
4th quarter.....	2,395	319	277	136	1,976	513	288	224	1,285	284	143	116
1955 <sup>a</sup> .....	10,106	1,342	925	421	8,395	2,304	1,247	930	5,425	1,282	638	496
1st quarter <sup>a</sup> .....	2,305	269	175	101	2,189	636	341	225	1,298	306	152	118
2d quarter <sup>a</sup> .....	2,524	358	242	90	1,999	539	296	220	1,340	315	156	122
3d quarter <sup>a</sup> .....	2,634	370	243	74	2,034	535	284	220	1,368	325	161	126
4th quarter <sup>a</sup> .....	2,643	355	265	156	2,193	594	326	247	1,419	336	160	130

<sup>1</sup> Class I line-haul railroads, covering about 95 percent of all railroad operations.

<sup>2</sup> After all charges and before Federal income taxes and dividends.

<sup>3</sup> After all charges and taxes and before dividends.

<sup>4</sup> Class A and B electric utilities, covering about 95 percent of all electric power operations.

<sup>5</sup> Revenues and profits for telephone operations of Bell System Consolidated (including the 20 operating subsidiaries and Long Lines and General departments of American Telephone and Telegraph Company) and for 2 affiliated telephone companies, which together represent about 85 percent of all telephone operations. Dividends for the 20 operating subsidiaries and 2 affiliates.

<sup>a</sup> Preliminary.

Source: Board of Governors of the Federal Reserve System; *Federal Reserve Bulletin*.

No. 593.—ANNUAL SALES, PROFITS, AND DIVIDENDS OF LARGE MANUFACTURING CORPORATIONS: 1940 TO 1955

[In millions of dollars. Includes data for 200 corporations each with assets of \$10,000,000 and over, at the end of 1946. Profits before and after taxes are as published by the 200 companies except for certain adjustments, chiefly to exclude special charges and credits and intercorporate dividends where large. Series includes little or no representation of some important nondurable goods groups such as meatpacking, tobacco, and rubber]

INDUSTRY	1940	1945	1948	1949	1950	1951	1952	1953	1954	1955 (per.)
Total (200 corporations):										
Sales	13,625	27,609	38,721	38,311	45,787	52,940	54,517	63,343	58,110	69,441
Profits before taxes	1,927	2,537	5,574	5,278	8,176	8,869	7,308	8,375	7,244	10,226
Profits after taxes	1,320	1,188	3,481	3,261	4,222	5,548	3,192	3,649	3,825	5,220
Dividends	902	901	1,480	1,746	2,339	2,075	2,073	2,154	2,381	2,826
Nondurable goods industries (94 corporations): <sup>1</sup>										
Sales	4,813	9,289	14,973	14,292	16,252	18,916	19,266	20,094	20,620	23,063
Profits before taxes	689	1,225	2,442	2,067	2,947	3,447	2,853	3,028	2,753	3,407
Profits after taxes	492	607	1,630	1,361	1,561	1,533	1,392	1,525	1,581	1,915
Dividends	377	396	725	789	977	925	946	972	1,064	1,202
Durable goods industries (106 corporations): <sup>2</sup>										
Sales	8,812	18,320	23,748	24,020	26,535	34,024	35,251	42,649	37,490	46,378
Profits before taxes	1,238	1,312	3,183	3,212	5,229	5,422	4,455	5,346	4,491	6,819
Profits after taxes	837	581	1,851	1,900	2,560	2,015	1,800	2,123	2,214	3,305
Dividends	625	505	755	958	1,362	1,149	1,127	1,182	1,320	1,625
Selected industries:										
Foods and kindred products (28 corporations): <sup>3</sup>										
Sales	1,616	3,171	4,528	4,223	4,402	4,909	5,042	5,411	5,476	5,813
Profits before taxes	179	412	455	434	532	473	453	465	492	499
Profits after taxes	136	163	285	268	289	227	203	212	224	244
Dividends	100	98	148	149	161	160	154	154	156	160
Chemicals and allied products (20 corporations): <sup>3</sup>										
Sales	1,388	2,708	3,949	3,904	4,817	5,882	5,965	6,373	6,182	7,217
Profits before taxes	318	457	713	734	1,178	1,490	1,250	1,308	1,173	1,535
Profits after taxes	206	199	442	441	567	521	486	520	503	732
Dividends	180	165	270	338	467	381	306	417	400	597
Petroleum refining (14 corporations): <sup>3</sup>										
Sales	1,145	2,117	4,065	3,991	4,350	5,078	5,411	5,883	6,015	6,556
Profits before taxes	97	211	816	587	712	911	728	841	751	854
Profits after taxes	84	185	620	487	492	560	524	603	607	624
Dividends	60	94	100	206	236	262	283	290	294	317
Primary metals and products (39 corporations): <sup>3</sup>										
Sales	3,861	6,659	9,060	8,184	10,448	12,507	11,564	13,750	11,522	14,927
Profits before taxes	480	446	1,176	996	1,706	2,098	1,147	1,817	1,357	2,375
Profits after taxes	357	220	721	580	857	778	564	799	705	1,194
Dividends	180	194	270	286	378	382	369	377	407	522
Machinery (27 corporations):										
Sales	1,186	3,584	4,541	4,342	5,049	6,168	7,077	8,005	7,745	8,110
Profits before taxes	201	378	568	518	847	1,000	971	1,011	914	805
Profits after taxes	125	130	333	320	424	365	375	402	465	458
Dividends	94	94	126	138	208	192	199	237	283	281
Automobiles and equipment (15 corporations):										
Sales	3,073	5,663	8,240	9,695	11,969	12,707	13,038	16,611	14,137	18,825
Profits before taxes	435	324	1,152	1,488	2,332	1,950	1,982	2,078	1,789	3,023
Profits after taxes	277	153	652	871	1,101	717	709	758	803	1,394
Dividends	205	174	230	457	679	486	469	469	536	693

<sup>1</sup> Includes 26 companies not shown separately, as follows: textile-mill products (10); paper and allied products (15); and miscellaneous (1).

<sup>2</sup> For certain items, data for 1940 are partly estimated for 7 companies: foods (2); chemicals (2); petroleum, textiles, and paper (1 each).

<sup>3</sup> Includes 25 companies not shown separately, as follows: building materials (12); transportation equipment other than automobile (6); and miscellaneous (7).

Source: Board of Governors of the Federal Reserve System; *Federal Reserve Bulletin*.

**No. 594.—CORPORATE DIVIDENDS PAID, BY INDUSTRIAL DIVISIONS: 1925 TO 1952**  
 [In millions of dollars. See headnote, table 587.]

INDUSTRY DIVISION <sup>1</sup>	1925		1930		1935		1940	
	Cash	Stock	Cash	Stock	Cash	Stock	Cash	Stock
All industrial divisions	5,189.5	544.4	8,184.2	414.2	5,940.6	135.9	6,088.8	140.0
Agriculture, forestry, and fishery	30.9	4.1	25.0	3.2	34.7	3.5	25.9	.1
Mining and quarrying	335.1	3.9	302.6	12.6	257.1	3.1	282.6	3.7
Construction	70.0	11.6	95.5	7.8	29.8	4.2	30.9	2.0
Manufacturing	2,223.8	267.4	3,161.0	121.9	2,193.5	49.7	2,399.6	48.0
Public utilities	1,008.8	77.2	2,239.0	40.2	1,283.8	5.6	1,075.3	11.3
Trade	506.4	90.5	560.8	61.7	510.1	28.6	512.5	19.1
Finance, insurance, real estate, and lessors of real property	896.8	78.6	1,646.8	155.3	1,559.6	38.4	1,655.1	53.1
Services	107.9	9.5	106.1	11.3	71.1	2.3	91.4	2.4
Nature of business not allocable	11.8	1.7	2.5	.1	1.0	.4	15.4	.2

INDUSTRY DIVISION <sup>1</sup>	1945		1950		1951		1952	
	Cash	Stock	Cash	Stock	Cash	Stock	Cash	Stock
All industrial divisions	6,080.8	334.4	11,553.0	1,292.5	11,299.5	1,429.2	11,262.8	1,363.6
Agriculture, forestry, and fishery	27.6	1.0	106.5	4.8	106.8	6.2	58.2	4.0
Mining and quarrying	159.8	1.9	552.8	10.5	600.8	36.6	613.7	41.4
Construction	29.5	3.2	82.7	27.9	73.2	26.8	80.6	29.7
Manufacturing	2,824.7	146.2	6,061.9	799.7	5,728.2	841.2	5,680.9	909.2
Public utilities	1,243.0	6.7	1,649.0	94.1	1,790.1	55.8	1,912.5	50.4
Trade	557.4	60.7	1,144.8	225.2	1,088.3	270.3	999.3	162.8
Finance, insurance, real estate, and lessors of real property	1,101.1	106.7	1,778.2	115.3	1,727.5	181.9	1,735.4	157.0
Services	132.3	7.9	172.2	14.8	180.9	10.4	180.5	9.1
Nature of business not allocable	5.5	.2	4.9	.2	3.6	—	1.6	—

<sup>1</sup> For changes in classification affecting comparability of data, see *Statistics of Income*, Part 2, for 1938 and 1948.

Source: Treasury Department, Internal Revenue Service; *Statistics of Income*, Part 2.

**No. 595.—SOURCES AND USES OF CORPORATE FUNDS: 1946 TO 1955**

[In billions of dollars. Covers nonfinancial business corporations only, excluding banking and insurance companies which are primarily suppliers of capital funds for business or intermediaries in flow of savings from consumers to business. Based on Securities and Exchange Commission and other financial data. Data through 1951 have been adjusted to Internal Revenue Service statistics]

USE OR SOURCE	1946	1947	1948	1949	1950	1951	1952	1953 <sup>1</sup>	1954 <sup>1</sup>	1955 <sup>1,2</sup>
Uses, total	23.2	32.7	28.3	16.5	45.3	39.1	30.1	27.6	20.5	(3)
Plant and equipment	12.5	17.0	18.8	16.3	16.9	21.6	22.4	23.9	22.4	24.5
Inventories	11.2	7.1	4.2	-3.6	9.8	9.4	.9	2.6	-2.8	4.0
Receivables	4.8	7.6	4.1	.6	13.8	4.7	5.8	.1	1.2	6.5
Consumer	1.1	1.5	1.3	1.4	1.6	.5	1.9	1.7	.6	(3)
U. S. Government	-2.0	-.2	.2	.2	.2	1.4	.1	-.2	-.2	(3)
Other	5.7	6.3	2.6	-1.0	12.0	2.8	3.8	-1.4	.9	(3)
Cash and deposits	1.1	2.2	3	1.2	1.6	1.9	.8	.1	.8	{ } 4.3.5
U. S. Government securities	-5.8	-1.2	.7	2.0	2.9	.9	-.7	1.1	-1.7	(3)
Other assets	-.6	(6)	.2	(6)	.3	.6	.8	-.1	.6	1.0
Sources, total	21.9	32.4	29.0	15.3	43.5	38.8	30.1	27.5	20.1	(3)
Retained profits <sup>6</sup>	7.2	11.4	12.4	7.6	12.4	9.1	6.4	6.8	6.2	9.5
Depreciation	4.2	5.2	6.2	7.1	7.8	9.0	10.4	11.7	13.1	14.5
Net new issues	2.4	4.4	5.9	4.9	3.7	6.3	7.9	7.0	6.1	6.0
Stocks	1.3	1.4	1.2	1.6	1.7	2.7	3.0	2.3	2.2	(3)
Bonds	1.1	3.0	4.7	3.3	2.0	3.6	4.9	4.8	4.0	(3)
Mortgage loans	.7	.7	.7	.6	1.0	.9	.7	.8	1.1	{ } 4.5
Bank loans	3.2	2.6	1.1	-2.9	1.6	4.5	2.4	-.3	-2.0	(3)
Short	2.1	1.4	.5	-1.7	2.1	3.9	1.6	-.1	-1.4	(3)
Long	1.1	1.2	.6	-1.2	-.5	.6	.8	-.3	-.6	(3)
Trade payables	3.7	4.5	1.3	-.3	8.8	2.7	2.7	-.6	-.7	(3)
Federal income tax liabilities	-1.6	2.1	1.0	-2.2	7.2	4.4	-2.9	1.3	-4.1	3.5
Other liabilities	2.1	1.5	.4	.5	1.0	1.9	2.4	.8	.3	1.5
Discrepancy (uses less sources)	1.3	.3	-.7	1.2	1.8	.3	(6)	.1	.4	(6)

<sup>1</sup> Preliminary. <sup>2</sup> Data from *Economic Report of the President*. <sup>3</sup> Not available.

<sup>4</sup> Net of trade payables. <sup>5</sup> Less than \$50 million. <sup>6</sup> Includes depletion.

Source: Department of Commerce, Office of Business Economics (except as noted); *Survey of Current Business*, September 1954 and December 1955.

No. 596.—BUSINESS EXPENDITURES FOR NEW PLANT AND EQUIPMENT: 1939 TO 1956  
 [In millions of dollars]

INDUSTRY GROUP	1939	1945	1950	1951	1952	1953	1954	1955	1956 <sup>1</sup>
Total <sup>2</sup>	5,512	8,692	20,605	25,644	26,493	28,322	26,827	28,701	34,893
Manufacturing	1,943	3,983	7,491	10,852	11,632	11,908	11,038	11,439	15,036
Durable goods industries	756	1,590	3,185	5,168	5,614	5,648	5,091	5,436	7,685
Primary iron and steel	122	198	599	1,108	1,511	1,210	754	863	1,327
Primary nonferrous metals	30	54	134	310	512	412	246	214	418
Fabricated metal products	91	216	350	433	(3)	(3)	(3)	(3)	(3)
Electrical machinery and equipment	49	123	245	373	386	475	439	436	579
Machinery except electrical	100	316	411	683	701	797	694	809	1,016
Motor vehicles and equipment	133	262	510	851	855	989	1,295	1,128	1,863
Transportation equipment, excluding motor vehicles	42	56	82	219	211	180	191	274	477
Stone, clay and glass products	71	100	280	397	330	346	361	498	685
Other durable goods	118	265	524	704	3,1,107	3,1,239	3,1,110	3,1,214	3,1,320
Nondurable goods industries	1,187	2,393	4,356	5,684	6,018	6,260	5,948	6,003	7,351
Food and kindred products	205	337	523	579	812	765	718	813	
Beverages	38	97	237	274	769	812	765	718	
Textile-mill products	136	209	450	531	434	378	331	366	389
Paper and allied products	67	116	327	420	364	409	455	518	712
Chemicals and allied products	176	376	771	1,247	1,886	1,428	1,130	1,016	1,426
Petroleum and coal products	403	879	1,587	2,102	2,585	2,668	2,684	2,798	3,322
Rubber products	38	118	102	150	154	161	131	150	176
Other nondurable goods	124	261	359	382	377	404	451	437	513
Mining	326	388	707	929	985	986	975	987	1,141
Railroad	280	548	1,111	1,474	1,306	1,311	854	923	1,807
Other transportation	365	574	1,212	1,490	1,500	1,565	1,512	1,602	1,784
Public utilities	520	505	3,309	3,664	3,887	4,552	4,219	4,309	4,089
Communication	302	321	1,104	319	1,537	1,600	1,717	1,983	
Commercial and other	1,776	2,377	5,671	5,916	5,557	6,310	6,513	7,488	10,636

<sup>1</sup> Estimates based on anticipated capital expenditures as reported by business from late January to early March 1956.

<sup>2</sup> Excludes agriculture.

<sup>3</sup> Fabricated metal products included with Other durable goods.

Source: Securities and Exchange Commission and Department of Commerce, Office of Business Economics. Data published quarterly in Statistical Series releases of the Securities and Exchange Commission and in Survey of Current Business.

No. 597.—GROSS PRIVATE DOMESTIC INVESTMENT AND ITS COMPONENTS: 1929 TO 1955

[In billions of dollars. Consists of acquisitions of newly produced capital goods by private business and nonprofit institutions and of value of change in volume of inventories held by them; covers all private new dwellings, including those acquired by owner-occupants]

CLASS	1929	1933	1940	1948	1949	1950	1951	1952	1953	1954	1955 <sup>1</sup>
Gross private domestic investment, total	16.2	1.4	13.2	41.2	32.5	51.2	56.9	49.6	51.4	47.2	59.3
Nonfarm producers' plant and equipment, total <sup>2</sup>	9.3	2.2	6.9	23.5	21.7	25.5	29.1	29.7	32.3	30.8	33.3
Equipment <sup>3</sup>	5.2	1.5	4.9	16.8	15.3	18.5	20.4	20.6	21.9	20.2	21.3
Construction <sup>4</sup>	4.1	.8	2.0	6.7	6.4	7.0	8.8	9.1	10.3	10.6	12.0
Farm equipment and construction <sup>5</sup>	.9	.2	.8	3.9	4.0	4.2	4.7	4.4	4.2	3.7	3.8
Residential construction (nonfarm) <sup>6</sup>	3.6	.5	3.0	8.6	8.3	12.6	11.0	11.1	11.9	13.5	16.6
Other private construction <sup>7</sup>	.7	.1	.3	1.0	1.3	1.5	1.7	1.6	1.8	2.1	2.3
Net change in business inventories, total	1.7	-1.6	2.2	4.2	-2.7	7.4	10.4	2.8	1.2	-2.9	3.2
Nonfarm	1.8	-1.4	1.9	3.0	-1.9	6.4	9.0	2.1	1.9	-3.2	3.0
Farm	-.2	-3	.3	1.1	-9	.9	1.4	.6	-7	.4	.2

<sup>1</sup> Preliminary.

<sup>2</sup> Items for 1940 and earlier years are not comparable with those for later years. (See footnotes 4 and 6.)

<sup>3</sup> Total producers' durable equipment less "farm machinery and equipment" and farmers' purchases of tractors and business motor vehicles. These figures assume that farmers purchase 85 and 15 percent, respectively, of all tractors and motor vehicles used for productive purposes.

<sup>4</sup> Industrial buildings, public utilities, gas- and oil-well drilling, warehouses, office and loft buildings, stores, restaurants, and garages. Includes hotel construction prior to 1948 only.

<sup>5</sup> Farm construction (residential and nonresidential) plus "farm machinery and equipment" and farmers' purchases of tractors and business motor vehicles. (See footnote 3.)

<sup>6</sup> Includes construction of hotels, tourist cabins, motor courts, and dormitories beginning 1948.

<sup>7</sup> Comprises religious, educational, social and recreational, hospital and institutional, miscellaneous nonresidential, and all other private.

Source: Department of Commerce, Office of Business Economics. Published in Economic Report of the President, January 1956.

## No. 598.—RESEARCH AND DEVELOPMENT EXPENDITURES: 1945 TO 1955

[Government data derived from actual Federal budget expenditures for research and development plus estimates of procurement expenditures used for research and development. Other data derived from many government and nongovernment sources]

YEAR	Total	SOURCE OF FUNDS			USE OF FUNDS BY—		
		Government	Industry	University	Government	Industry	University
<b>EXPENDITURES (\$1,000,000)</b>							
1945	1,520	1,070	430	20	430	990	100
1946	1,780	910	840	30	470	1,190	120
1947	2,260	1,160	1,050	50	520	1,570	170
1948	2,610	1,390	1,150	70	570	1,820	220
1949	2,610	1,550	990	70	550	1,790	270
1950	2,870	1,610	1,180	80	570	1,980	320
1951	3,390	1,980	1,300	80	700	2,300	360
1952	3,750	2,240	1,430	80	800	2,530	420
1953	4,000	2,490	1,430	80	770	2,810	420
1954	4,140	2,460	1,600	80	700	3,020	420
1955	5,400	2,720	2,600	80	1,000	3,950	450
<b>PERCENT OF TOTAL</b>							
1945	100	70	28	2	28	65	7
1946	100	51	47	2	26	67	7
1947	100	51	47	2	23	69	8
1948	100	53	44	3	22	70	8
1949	100	59	38	3	21	69	10
1950	100	56	41	3	20	69	11
1951	100	59	39	2	21	68	11
1952	100	60	38	2	21	68	11
1953	100	62	36	2	19	70	11
1954	100	59	39	2	17	73	10
1955	100	50	48	2	19	73	8

Source: Department of Defense, Research and Development Board.

## No. 599.—INDUSTRIAL RESEARCH AND DEVELOPMENT—COST AND PERSONNEL, BY INDUSTRY: 1953

[Based on sample survey. Includes enterprises having 8 or more employees. For detailed discussion, see source.]

INDUSTRY	Number of companies <sup>1</sup>	RESEARCH AND DEVELOPMENT COST (\$1,000,000)		SCIENTISTS AND ENGINEERS <sup>2</sup>			
		Total	Basic research	All types		Research and development	
				Total	Engineers	Total	Engineers
All industries	15,560	3,699.4	149.4	553,800	408,800	157,300	105,100
Manufacturing	13,860	3,502.8	135.6	438,600	310,200	148,400	99,200
Food and kindred products	860	54.2	3.5	14,400	6,000	4,000	900
Textile-mill products and apparel	690	28.0	(3)	5,900	3,000	1,800	1,000
Paper and allied products	450	27.9	(3)	6,000	3,800	1,700	800
Chemicals and allied products	1,640	361.1	37.8	62,700	26,000	21,500	5,500
Petroleum products and extraction <sup>4</sup>	260	145.9	11.1	38,500	22,600	6,800	2,900
Rubber products	170	53.6	3.1	7,800	4,600	3,800	2,100
Stone, clay, and glass products	400	38.0	3.6	9,600	6,200	2,100	1,100
Primary metal industries	410	59.8	4.2	26,600	16,000	3,700	1,600
Fabricated metal products and ordnance	1,740	103.3	(3)	21,900	17,800	4,600	3,500
Machinery	3,200	318.9	11.5	60,300	53,400	16,300	13,800
Electrical equipment	1,140	778.3	18.7	61,000	51,100	28,800	24,600
Aircraft and parts	160	758.0	18.1	48,500	41,100	27,600	22,500
Professional and scientific instruments	500	171.7	11.7	18,800	13,900	9,100	6,200
Other manufacturing	2,240	604.1	12.3	56,000	44,700	16,600	12,700
Nonmanufacturing	1,700	196.6	13.7	115,100	98,500	9,000	6,200
Construction	100	29.3	(3)	28,400	26,300	1,600	1,100
Telecommunications and radio broadcasting	110	113.0	9.1	28,600	27,400	3,700	2,800
Transportation and other public utilities	190	20.4	(5)	33,200	28,500	1,200	900
Other nonmanufacturing	1,300	33.9	4.6	24,900	16,300	2,500	1,400

<sup>1</sup> Conducting research and development. <sup>2</sup> Employed in January 1954.

<sup>3</sup> Included with "Other manufacturing."

<sup>4</sup> Includes a few companies with relatively small research programs engaged primarily in manufacturing coal products. <sup>5</sup> Included with "Other nonmanufacturing."

Source: National Science Foundation. *Science and Engineering in American Industry* (prepared by Department of Labor, Bureau of Labor Statistics).

## NO. 600.—BUSINESS SALES, INVENTORIES, AND ORDERS: 1940 TO 1955

[In billions of dollars. Data comprise all companies, both corporate and noncorporate, major activities of which are in manufacturing or trade. Farm and other nonfarm businesses not included. Beginning in 1951, retail trade estimates based on a new method of estimation adopted by Bureau of the Census]

ITEM	1940	1945	1948	1949	1950	1951	1952	1953	1954	1955
Manufacturing and trade sales, total (unadjusted)	145.6	286.2	437.3	416.0	479.0	539.1	550.6	581.1	560.7	620.1
Manufacturing, total	70.8	154.5	211.6	197.0	231.4	267.7	274.2	298.4	280.8	317.0
Durable goods	29.7	75.2	91.1	84.8	105.6	124.5	131.2	149.6	133.6	157.9
Nondurable goods	40.6	79.3	120.4	112.2	125.8	143.2	143.0	148.8	147.2	159.0
Wholesale trade, total	28.9	53.7	95.2	88.3	103.9	113.2	112.3	111.9	109.3	117.6
Durable goods	7.5	10.9	27.4	24.7	34.2	37.6	36.0	37.1	34.8	39.7
Nondurable goods	21.4	42.8	67.7	63.6	69.7	75.5	76.4	74.8	74.5	78.0
Retail trade, total	46.4	78.0	130.5	130.7	143.7	158.2	164.1	170.7	170.7	185.5
Durable goods	13.6	16.0	41.9	43.9	52.9	54.5	55.3	60.4	58.2	67.0
Nondurable goods	32.8	62.0	88.6	86.8	90.8	103.7	108.8	110.4	112.5	118.5
Manufacturing and trade inventories, end of year (seasonally adjusted) book value, total	22.2	30.9	55.6	52.1	64.1	75.2	76.7	80.3	76.9	82.1
Manufacturing, total	12.8	18.4	31.7	28.9	34.3	42.8	43.8	45.9	43.3	45.9
Durable goods	6.3	8.8	15.7	14.0	16.8	22.8	24.4	26.3	24.0	26.3
Nondurable goods	6.5	9.6	16.0	14.9	17.5	20.0	19.4	19.6	19.2	19.6
Wholesale trade, total	3.2	4.6	8.1	7.9	10.5	11.1	11.3	11.7	11.5	12.3
Durable goods	1.1	1.5	3.7	3.7	5.0	5.8	5.8	5.9	5.7	6.4
Nondurable goods	2.1	3.1	4.4	4.3	5.4	5.4	5.6	5.8	5.8	5.9
Retail trade, total	6.1	7.9	15.8	15.3	19.3	21.2	21.6	22.7	22.1	23.9
Durable goods	2.5	2.4	6.7	6.4	8.5	9.7	9.9	10.7	10.1	11.2
Nondurable goods	3.6	5.5	9.1	8.9	10.8	11.5	11.7	12.0	12.0	12.7
Ratio of inventories to sales: <sup>1</sup>										
Manufacturing, total	2.06	1.48	1.72	1.86	1.57	1.77	1.90	1.82	1.89	1.67
Durable goods	2.29	1.58	1.96	2.15	1.68	1.93	2.17	2.07	2.22	1.88
Nondurable goods	1.88	1.39	1.54	1.64	1.48	1.63	1.66	1.57	1.58	1.46
Wholesale trade, total	1.30	0.91	0.99	1.08	1.03	1.20	1.18	1.25	1.29	1.21
Durable goods	1.70	1.40	1.51	1.80	1.46	1.81	1.89	1.95	2.00	1.80
Nondurable goods	1.16	0.78	0.77	0.80	0.82	0.90	0.85	0.90	0.96	0.91
Retail trade, total	1.49	1.21	1.40	1.43	1.40	1.63	1.53	1.57	1.58	1.49
Durable goods	1.97	1.74	1.80	1.87	1.61	2.09	2.04	2.08	2.13	1.91
Nondurable goods	1.29	1.07	1.22	1.21	1.27	1.39	1.27	1.29	1.29	1.25
Manufacturing inventories, end of year, by stages of fabrication, total (unadjusted)	12.9	18.5	31.8	29.0	34.5	43.0	44.0	46.2	43.5	46.1
Purchased materials	4.8	8.3	13.2	11.4	14.9	16.9	16.3	16.1	14.6	15.6
Goods in process	2.9	4.9	7.5	6.7	8.4	11.2	12.7	13.2	12.4	13.8
Finished goods	5.2	5.3	11.1	10.9	11.2	14.9	15.0	16.9	16.5	16.7
Durable goods	6.3	8.8	15.7	13.9	16.7	22.8	24.4	26.4	24.0	26.2
Purchased materials	2.1	3.2	5.8	4.7	6.2	7.6	7.5	7.6	6.5	7.2
Goods in process	2.0	3.5	5.3	4.7	5.9	8.6	10.1	10.6	9.7	10.9
Finished goods	2.2	2.1	4.6	4.5	4.6	6.6	6.8	8.2	7.8	8.1
Nondurable goods	6.6	9.7	16.1	15.1	17.8	20.2	19.6	19.8	19.5	19.9
Purchased materials	2.7	5.1	7.4	6.7	8.7	9.3	8.8	8.5	8.1	8.5
Goods in process	0.9	1.4	2.2	2.0	2.5	2.6	2.6	2.6	2.7	2.9
Finished goods	3.0	3.2	6.5	6.4	6.6	8.3	8.2	8.7	8.7	8.5
Ratio of inventories to sales: <sup>1</sup>										
Durable goods:										
Purchased materials	0.74	0.52	0.71	0.74	0.58	0.66	0.67	0.61	0.62	0.50
Goods in process	0.67	0.72	0.69	0.72	0.58	0.71	0.87	0.85	0.88	0.77
Finished goods	0.88	0.34	0.56	0.69	0.52	0.56	0.68	0.61	0.72	0.61
Nondurable goods:										
Purchased materials	0.74	0.73	0.73	0.71	0.65	0.78	0.74	0.67	0.65	0.69
Goods in process	0.24	0.22	0.22	0.23	0.23	0.22	0.23	0.23	0.22	0.22
Finished goods	0.90	0.44	0.59	0.70	0.61	0.63	0.69	0.67	0.71	0.65
Manufacturing, new orders, total (unadjusted)	81.7	126.4	208.2	190.8	251.8	294.1	283.0	281.1	268.3	325.9
Durable goods	40.5	47.3	89.8	79.1	123.8	152.1	140.3	138.1	120.7	166.2
Nondurable goods	41.2	79.1	118.4	111.7	128.0	142.0	142.7	148.0	147.6	159.6
Manufacturing, unfilled orders, end of year, total (unadjusted)	18.4	20.9	26.9	20.8	41.1	67.6	76.3	59.0	46.5	55.5
Durable goods	16.5	18.0	24.2	18.4	36.6	64.1	73.2	56.7	43.8	52.2
Nondurable goods	1.8	2.9	2.8	2.4	4.6	3.4	3.2	2.3	2.7	3.4

<sup>1</sup> Ratio of average inventories to monthly sales; average inventories based on weighted averages of end of period figures.

## No. 601.—NET CHANGE IN BUSINESS INVENTORIES: 1929 TO 1955

[In millions of dollars. Net change in business inventories measures change in physical inventories, valued at average prices current during year. Difference between change in business inventories as thus measured and change in book value of inventories constitutes inventory valuation adjustment]

ITEM	1929	1933	1940	1945	1950	1952	1953	1954	1955 (prel.)
Net change in business inventories, total	1,674	-1,629	2,172	-1,057	7,351	2,753	1,172	-2,852	3,200
Farm	-162	-259	270	-462	923	648	-683	393	200
Nonfarm	1,836	-1,370	1,902	-595	6,428	2,105	1,855	-3,245	3,000
Net change in nonfarm inventories	1,836	-1,370	1,902	-595	6,428	2,105	1,855	-3,245	3,000
Corporate	1,558	-871	1,586	-1,027	4,924	1,850	1,519	-2,995	(1)
Noncorporate	278	-499	316	432	1,504	255	336	-250	(1)
Change in book value	1,222	1,298	2,147	75	12,426	925	3,144	-2,944	(1)
Corporate	1,086	1,272	1,786	-463	9,788	883	2,606	-2,768	(1)
Noncorporate	136	26	361	538	2,638	42	538	-176	(1)
Inventory valuation adjustment	614	-2,668	-245	-670	-5,998	1,180	-1,280	-301	(1)
Corporate	472	-2,143	-200	-564	-4,864	967	-1,087	-227	-2,000
Noncorporate	142	-525	-45	-106	-1,134	213	-202	-74	(1)
Net change in nonfarm inventories by industrial groups	1,836	-1,370	1,902	-595	6,428	2,105	1,855	-3,245	3,000
Manufacturing	911	-578	1,218	-1,556	2,285	1,682	1,392	-2,870	(1)
Change in book value	598	828	1,337	-1,121	5,496	1,018	2,146	-2,664	2,500
Inventory valuation adjustment	313	-1,406	-139	-435	-3,231	664	-754	-206	(1)
Wholesale trade	31	-89	183	560	1,356	223	194	-21	(1)
Change in book value	-74	268	173	665	2,458	-99	332	-40	700
Inventory valuation adjustment	105	-357	10	-105	-1,102	322	-138	19	(1)
Retail trade	250	-488	482	272	2,404	143	200	-319	(1)
Change in book value	77	220	563	358	3,653	-89	466	-220	1,600
Inventory valuation adjustment	173	-708	-81	-86	-1,249	232	-266	-99	(1)
All other	644	-215	19	129	403	57	69	-35	(1)
Change in book value	621	-18	54	173	819	95	200	-20	(1)
Inventory valuation adjustment	23	-107	-35	-44	-416	-38	-131	-15	(1)

<sup>1</sup> Not available.

Source: Department of Commerce, Office of Business Economics; *Survey of Current Business*, July 1955 and February 1956, *National Income Supplement*, 1954, and records.

## No. 602.—INDUSTRIAL AND COMMERCIAL FAILURES—NUMBER AND LIABILITIES: 1857 TO 1955

[Excludes all railroad failures. Series revised beginning 1933 to exclude real estate and financial companies. These revisions bring "Failures" more nearly in accordance with type of concerns covered by "Total concerns in business," in which no changes were made. Beginning 1939, new series includes voluntary discontinuances with loss to creditors and small concerns forced out of business with insufficient assets to cover all claims, in addition to failures included in former series. See also headnote, table 603]

YEAR OR YEARLY AVERAGE	Total concerns in business <sup>1</sup>	Fail- ures	Current liabilities (\$1,000)	Aver- age liabil- ity	YEAR	Total concerns in business <sup>1</sup>	Fail- ures	Current liabilities (\$1,000)	Aver- age liabil- ity
1857-1860	224,597	4,185	132,925	\$31,762	1858 <sup>2</sup>	1,960,701	20,307	502,830	\$24,761
1861-1865	301,574	2,038	52,873	25,944	1858 <sup>3</sup>	1,960,701	19,859	457,520	23,038
1866-1870	391,373	2,648	75,488	28,508	1858 <sup>4</sup>	1,973,900	12,091	333,959	27,621
1871-1875	522,349	5,147	158,221	30,740	1855	1,982,905	12,244	310,580	25,366
1876-1880	677,247	7,987	156,014	18,700	1856	2,009,935	9,607	203,173	21,148
1881-1885	858,537	8,622	148,228	16,338	1857 <sup>5</sup>	2,056,598	9,490	183,253	19,310
1886-1890	1,034,503	10,387	148,935	14,338	1858 <sup>6</sup>	2,101,933	12,836	246,505	19,204
1891-1895	1,166,446	12,088	199,376	15,351	1859 <sup>7</sup>	2,116,008	11,408	168,204	14,744
1896-1900	1,127,565	12,147	148,094	12,192	1859 <sup>8</sup>	2,116,008	14,768	182,520	12,359
1901-1905	1,280,304	11,681	126,578	10,830	1940	2,156,450	13,610	166,684	12,239
1906-1910	1,452,022	12,735	179,000	14,056	1941	2,170,615	11,848	136,104	11,488
1911-1915	1,607,221	17,073	265,410	15,545	1942	2,151,549	9,405	100,763	10,713
1916-1920	1,736,249	11,232	190,017	16,917	1943	2,023,007	3,221	45,339	14,076
1921-1925	2,013,406	20,775	555,531	26,740	1944	1,855,033	1,222	31,660	25,908
1926-1930	2,184,996	23,605	514,036	21,779	1945	1,909,095	809	30,225	37,361
1931-1935	2,023,875	20,860	553,336	26,526	1946	2,141,807	1,129	67,349	59,654
1936-1940	2,088,185	12,064	196,427	16,282	1947	2,404,883	3,474	204,612	58,893
1941-1945	2,021,860	5,301	68,852	12,988	1948	2,550,018	5,250	234,620	44,690
1946-1950	2,492,560	5,652	212,595	44,733	1949	2,679,306	9,246	308,109	33,323
1951-1955	2,171,688	23,146	520,105	22,471	1950	2,686,786	9,162	248,283	27,099
1956-1960	2,199,049	23,842	489,559	20,534	1951	2,607,977	8,058	259,547	32,210
1961-1965	2,212,770	22,909	493,252	21,094	1952	2,637,004	7,611	283,314	37,224
1966-1970	2,183,008	26,355	668,282	25,357	1953	2,666,680	8,862	394,153	44,477
1971-1975	2,125,288	28,285	736,310	26,032	1954	2,632,312	11,086	402,628	41,731
1976-1980	2,076,580	31,322	928,313	29,172	1955	2,633,063	10,969	449,380	40,968

<sup>1</sup> For 1857-70 based on census of business by Mercantile Agency in 1857 and 1859; thereafter represents number of names listed in July issue of *Dun & Bradstreet Reference Book*. See table 606 for class of industries covered.

<sup>2</sup> See headnote regarding revisions. Figures in italics are comparable with preceding years.

Source: Dun & Bradstreet, Inc., New York, N. Y. Monthly data published currently in *Dun's Statistical Review*.

No. 603.—INDUSTRIAL AND COMMERCIAL FAILURES—NUMBER, LIABILITIES, AND RATE, BY MONTHS: 1950 TO 1955

[Liabilities in thousands of dollars. Current Liabilities represent primarily current indebtedness, including not only all accounts and notes payable, but also all obligations, whether in a secured form or not, known to be held by bank officers, affiliated companies, supplying companies, or the Government. They exclude long-term publicly held obligations. Offsetting assets are not taken into account]

YEAR	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
<b>Number:</b>												
1950-----	864	811	884	806	874	725	694	787	648	707	683	679
1951-----	775	599	732	603	755	699	685	678	620	643	587	612
1952-----	671	619	715	780	638	671	580	594	539	631	590	583
1953-----	647	691	739	693	697	817	724	700	686	840	815	813
1954-----	867	926	1,102	975	943	965	856	912	819	871	933	917
1955-----	939	877	1,038	903	955	914	861	888	822	919	945	908
<b>Current liabilities:</b>												
1950-----	26,436	22,156	27,900	21,250	22,672	18,072	19,538	18,448	15,254	16,649	18,884	21,044
1951-----	21,685	16,009	17,655	17,064	23,504	22,773	21,088	26,417	26,643	29,742	17,567	19,403
1952-----	26,208	19,474	29,282	29,530	21,193	21,222	22,789	16,322	20,138	35,049	18,757	23,400
1953-----	23,309	27,273	31,082	27,520	32,789	32,379	39,830	28,529	33,817	37,076	36,793	43,754
1954-----	23,592	47,774	57,280	42,512	38,494	41,613	32,230	32,582	36,381	29,000	35,067	40,103
1955-----	37,872	42,056	41,208	35,968	34,714	36,667	32,543	36,028	33,120	34,777	42,783	41,643
<b>Rate:</b>												
1950-----	38.5	41.0	36.4	36.0	37.6	31.2	31.2	32.7	29.5	32.3	33.7	30.9
1951-----	34.0	31.0	31.2	31.9	33.5	31.2	30.7	28.9	29.7	28.5	29.3	28.2
1952-----	29.7	31.0	31.6	34.4	28.1	30.7	25.4	25.9	24.5	27.4	30.3	25.3
1953-----	28.2	35.6	32.2	30.3	31.5	35.4	31.3	30.3	30.7	36.2	41.7	35.3
1954-----	39.4	47.9	46.7	42.9	43.1	42.5	37.6	40.1	37.5	38.9	46.4	40.3
1955-----	42.9	45.6	44.0	39.7	43.7	40.2	39.1	37.4	37.5	41.9	46.8	39.8

<sup>1</sup> Number of failures per 10,000 enterprises.

No. 604.—INDUSTRIAL AND COMMERCIAL FAILURES—NUMBER AND LIABILITIES, BY INDUSTRIAL GROUPS AND SIZE OF LIABILITIES: 1953 TO 1955

[Liabilities in thousands of dollars. See headnote, table 603]

INDUSTRIAL GROUP AND SIZE OF LIABILITIES	1953			1954			1955		
	Number	Percent	Current liabilities	Number	Percent	Current liabilities	Number	Percent	Current liabilities
<b>Total</b>	8,862	100.0	394,153	11,086	100.0	462,628	10,969	100.0	449,380
Under \$5,000	1,383	15.6	4,041	1,640	14.8	4,864	1,785	16.3	5,256
\$5,000 to \$25,000	4,317	48.7	52,010	5,640	50.9	70,124	5,412	49.3	67,105
\$25,000 to \$100,000	2,375	26.8	111,479	2,946	26.5	186,404	2,916	26.6	134,003
\$100,000 to \$1,000,000	748	8.5	166,625	829	7.5	181,732	820	7.5	176,552
\$1,000,000 and over	39	0.4	59,998	31	0.3	60,504	36	0.3	66,464
<b>Mining and manufacturing</b>	1,857	100.0	158,854	2,282	100.0	171,284	2,202	100.0	156,945
Under \$5,000	169	9.1	488	211	9.3	617	188	8.5	565
\$5,000 to \$25,000	721	38.8	8,802	936	41.0	11,787	905	41.1	11,617
\$25,000 to \$100,000	637	34.3	31,227	766	33.6	37,460	764	34.7	36,288
\$100,000 to \$1,000,000	304	16.4	77,474	352	15.4	83,642	327	14.9	75,904
\$1,000,000 and over	26	1.4	40,863	17	0.7	37,778	18	0.8	32,571
<b>Wholesale trade</b>	933	100.0	52,199	1,132	100.0	56,338	1,164	100.0	57,682
Under \$5,000	81	8.7	242	105	9.3	303	97	8.3	282
\$5,000 to \$25,000	408	43.7	5,165	498	44.0	6,764	535	46.0	7,103
\$25,000 to \$100,000	324	34.7	15,334	406	35.9	19,331	412	35.4	19,690
\$100,000 to \$1,000,000	116	12.5	23,038	119	10.5	26,706	114	9.8	21,987
\$1,000,000 and over	4	0.4	7,525	4	0.3	8,234	6	0.5	8,620
<b>Retail trade</b>	4,381	100.0	117,299	5,491	100.0	145,473	5,339	100.0	121,619
Under \$5,000	878	20.0	2,564	1,008	18.4	3,014	1,121	21.0	3,273
\$5,000 to \$25,000	2,379	54.3	27,789	3,159	57.5	38,074	2,936	55.0	35,078
\$25,000 to \$100,000	923	21.1	41,801	1,138	20.7	50,054	1,101	20.6	48,197
\$100,000 to \$1,000,000	196	4.5	39,575	181	3.3	34,058	181	3.4	35,071
\$1,000,000 and over	5	0.1	5,570	5	0.1	20,273	9	0.7	19,717
<b>Construction</b>	1,024	100.0	43,327	1,305	100.0	56,829	1,404	100.0	83,179
Under \$5,000	127	12.4	379	146	11.2	453	162	11.5	507
\$5,000 to \$25,000	468	45.7	6,046	608	46.6	7,985	615	43.8	8,230
\$25,000 to \$100,000	325	31.7	15,169	431	33.0	20,213	462	32.9	21,779
\$100,000 to \$1,000,000	102	10.0	19,487	118	9.0	23,690	156	11.1	32,946
\$1,000,000 and over	2	0.2	2,246	2	0.2	4,479	9	0.7	19,717
<b>Commercial service</b>	667	100.0	22,474	876	100.0	32,704	860	100.0	29,955
Under \$5,000	128	19.2	368	170	19.4	477	217	25.2	629
\$5,000 to \$25,000	341	51.1	4,208	439	50.1	5,514	421	49.0	5,077
\$25,000 to \$100,000	166	24.9	7,948	205	23.4	9,346	177	20.6	8,049
\$100,000 to \$1,000,000	30	4.5	6,156	59	6.7	13,627	42	4.9	10,644
\$1,000,000 and over	2	0.3	3,794	3	0.4	3,740	3	0.3	5,556

Source of tables 603 and 604: Dun & Bradstreet, Inc., New York, N. Y. Monthly data published currently in *Dun's Statistical Review*.

No. 605.—PERCENT OF FIRMS SURVIVING TO SPECIFIED AGE, BY MAJOR INDUSTRY GROUP: 1954

[Based on 1947 to 1954 experience]

MAJOR INDUSTRY GROUP	0.5 year	1.5 years	2.5 years	3.5 years	4.5 years	5.5 years	6.5 years	7.5 years	8.5 years	9.5 years	10.5 years
All industries.....	77	54	41	34	29	26	24	23	21	20	19
Mining and quarrying.....	79	55	42	34	30	26	24	22	20	19	18
Contract construction.....	82	62	51	44	40	37	35	33	31	30	29
Manufacturing.....	82	60	46	38	33	29	26	24	23	22	20
Transportation, communication, and other public utilities.....	76	51	38	31	27	25	23	21	20	19	19
Wholesale trade.....	85	67	56	48	43	40	37	35	34	32	31
Retail trade.....	74	49	36	29	25	22	20	19	18	17	16
Finance, insurance, and real estate.....	84	66	54	47	42	38	35	33	32	30	29
Service industries.....	77	53	40	33	28	25	23	22	21	20	19

Source: Department of Commerce, Office of Business Economics; *Survey of Current Business*, December 1955.

No. 606.—INDUSTRIAL AND COMMERCIAL FAILURES—NUMBER AND LIABILITIES, BY INDUSTRIAL GROUPS AND INDUSTRIES: 1952 TO 1955

[See headnote, table 603.]

INDUSTRIAL GROUP	NUMBER				CURRENT LIABILITIES (\$1,000)			
	1952	1953	1954	1955	1952	1953	1954	1955
	7,611	8,862	11,086	10,969	283,314	394,153	462,628	449,380
<b>Grand total.....</b>								
<b>Mining and manufacturing.....</b>	<b>1,581</b>	<b>1,857</b>	<b>2,282</b>	<b>2,202</b>	<b>104,954</b>	<b>158,854</b>	<b>171,284</b>	<b>156,945</b>
Mining—Coal, oil, miscellaneous.....	42	41	42	55	3,794	3,034	8,007	5,156
Food and kindred products.....	164	165	179	165	12,648	22,370	16,080	14,198
Textile-mill products and apparel.....	388	472	543	506	19,808	30,381	28,082	25,334
Lumber and products.....	245	287	336	336	11,758	14,092	18,584	13,658
Paper, printing, and publishing.....	101	107	129	114	7,038	10,687	12,274	6,760
Chemicals and allied products.....	43	60	75	49	3,937	7,292	5,634	3,454
Leather and products.....	82	98	103	80	4,553	7,102	6,868	4,358
Stone, clay, and glass products.....	40	39	60	49	1,886	2,052	2,232	1,821
Iron, steel, and products.....	50	66	115	120	4,234	11,977	10,437	14,219
Machinery.....	131	171	301	291	19,680	29,753	37,874	37,278
Transportation equipment.....	44	60	51	47	2,520	6,249	5,938	5,327
Miscellaneous.....	251	291	348	390	13,028	13,828	18,665	25,382
<b>Wholesale trade.....</b>	<b>748</b>	<b>933</b>	<b>1,132</b>	<b>1,164</b>	<b>40,896</b>	<b>52,199</b>	<b>56,338</b>	<b>57,682</b>
Food and farm products.....	217	265	298	274	10,363	16,672	14,038	12,635
Apparel.....	51	38	46	62	1,745	1,217	1,595	2,176
Dry goods.....	35	44	60	54	1,475	2,388	2,377	4,107
Lumber, building materials, hardware.....	62	103	113	135	3,501	9,319	5,019	7,014
Chemicals and drugs.....	23	35	47	36	1,140	1,598	1,334	1,187
Motor vehicles and auto equipment.....	32	36	56	68	1,150	1,240	1,833	2,020
Miscellaneous.....	328	412	512	535	21,522	10,830	30,142	28,543
<b>Retail trade.....</b>	<b>3,833</b>	<b>4,381</b>	<b>5,491</b>	<b>5,339</b>	<b>75,547</b>	<b>117,299</b>	<b>145,473</b>	<b>121,619</b>
Food and liquor.....	919	888	1,004	1,053	13,343	15,586	14,805	19,556
General merchandise.....	135	149	192	193	3,086	4,239	7,052	5,193
Apparel and accessories.....	570	597	808	865	10,730	16,204	15,153	17,774
Furniture, home furnishings.....	428	711	906	719	10,677	26,654	45,419	21,072
Lumber, building materials, hardware.....	187	221	311	324	6,705	7,181	9,844	10,367
Automotive group.....	302	520	616	544	6,225	17,172	20,604	12,915
Eating and drinking places.....	828	793	985	956	16,097	17,472	18,683	20,330
Drug stores.....	107	123	161	128	1,908	4,199	4,839	2,574
Miscellaneous.....	357	379	508	557	6,776	9,591	11,074	11,838
<b>Construction.....</b>	<b>838</b>	<b>1,024</b>	<b>1,305</b>	<b>1,404</b>	<b>36,145</b>	<b>43,927</b>	<b>56,829</b>	<b>83,179</b>
General building contractors.....	317	382	456	443	20,812	21,537	29,757	39,827
Building subcontractors.....	494	582	703	880	14,037	16,082	23,707	34,485
Other contractors.....	27	60	56	81	1,296	5,708	3,365	8,867
<b>Commercial service.....</b>	<b>611</b>	<b>667</b>	<b>876</b>	<b>860</b>	<b>25,772</b>	<b>22,474</b>	<b>32,704</b>	<b>29,955</b>
Passenger and freight transportation.....	178	212	282	255	14,909	8,197	14,461	11,870
Miscellaneous public services.....	34	27	40	30	1,893	2,513	1,746	4,028
Hotels.....	28	25	37	41	1,290	4,088	2,614	5,901
Cleaning, dyeing, repairing.....	87	74	105	95	1,283	1,315	1,838	1,229
Laundries.....	40	40	41	50	851	1,180	1,174	1,344
Undertakers.....	10	5	5	8	273	133	32	401
Other personal services.....	56	41	61	61	987	648	2,124	536
Business and repair services.....	178	243	305	320	4,286	4,301	8,715	4,646

Source: Dun & Bradstreet, Inc., New York, N. Y. Monthly data published currently in *Dun's Statistical Review*.

## No. 607.—INDUSTRIAL AND COMMERCIAL FAILURES—NUMBER AND LIABILITIES, BY STATES: 1953 TO 1955

DIVISION AND STATE	FAILURES									
	TOTAL CONCERNs IN BUSINESS <sup>1</sup>			Number		As per cent of concerns in business, 1955	Current Liabilities (\$1,000)			
	1953	1954	1955	1953	1954		1953	1954	1955	
United States	2,666,680	2,632,312	2,633,063	8,862	11,086	10,969	0.42	394,153	462,628	449,380
New England	179,682	178,856	179,707	668	727	720	0.40	26,892	30,662	33,512
Maine	16,187	16,904	16,908	32	48	35	0.22	2,168	1,362	1,234
New Hampshire	9,651	9,389	9,382	24	22	23	0.25	1,809	905	1,075
Vermont	7,100	6,699	6,909	8	7	6	0.09	260	161	304
Massachusetts	80,738	89,080	90,413	314	363	385	0.43	13,809	15,103	20,775
Rhode Island	16,280	15,845	16,184	97	106	107	0.66	2,856	3,766	4,829
Connecticut	40,726	41,030	40,941	193	181	104	0.40	6,400	9,365	5,405
Middle Atlantic	588,455	574,779	561,416	3,309	3,753	3,749	0.67	153,888	155,296	159,570
New York	298,812	289,380	277,611	2,539	2,943	2,737	0.99	106,417	106,784	106,482
New Jersey	97,798	98,568	96,993	360	385	456	0.47	25,856	20,086	20,753
Pennsylvania	191,845	186,831	186,812	410	525	556	0.30	21,615	28,426	23,335
East North Central	542,613	534,902	538,225	979	1,416	1,464	0.27	45,683	78,119	60,628
Ohio	133,846	133,433	135,478	271	384	393	0.29	11,479	14,463	15,599
Indiana	69,953	68,521	68,235	67	134	94	0.14	2,682	6,644	5,228
Illinois	165,735	160,383	160,280	332	450	428	0.27	20,046	38,641	16,907
Michigan	100,366	100,330	101,074	114	209	211	0.21	5,511	11,150	14,435
Wisconsin	72,713	72,230	73,158	195	239	338	0.46	5,965	7,221	8,459
West North Central	278,089	276,280	273,339	274	374	372	0.14	12,779	14,484	16,851
Minnesota	57,456	56,963	55,896	84	108	136	0.24	3,500	4,605	7,061
Iowa	52,626	52,423	51,586	60	53	56	0.11	3,056	2,418	2,143
Missouri	75,195	74,434	72,941	70	113	93	0.13	3,726	4,429	3,005
North Dakota	11,805	11,839	11,559	4	6	6	0.05	150	372	559
South Dakota	13,632	13,545	13,233	3	3	6	0.05	25	78	118
Nebraska	29,421	28,760	29,002	17	36	20	0.07	1,015	1,169	2,366
Kansas	37,954	38,316	38,122	36	55	55	0.14	1,307	1,413	1,599
South Atlantic	315,441	318,889	320,572	649	957	890	0.28	31,665	44,773	43,023
Delaware	6,501	6,585	6,842	7	4	5	0.07	1,039	410	129
Maryland	35,304	35,551	36,206	118	165	138	0.38	4,400	4,694	5,256
Dist. of Columbia	9,374	10,166	9,786	27	64	47	0.48	3,138	4,644	6,967
Virginia	48,699	47,676	47,288	57	104	76	0.16	1,424	3,979	3,266
West Virginia	27,843	27,905	27,280	59	83	91	0.33	4,425	2,046	3,144
North Carolina	58,493	58,610	60,086	60	69	65	0.11	3,913	4,795	3,313
South Carolina	25,980	26,808	24,956	31	71	66	0.26	1,119	6,150	2,225
Georgia	46,048	46,431	46,213	108	152	147	0.32	3,373	5,237	6,944
Florida	57,199	59,157	61,915	182	245	255	0.41	8,834	12,809	11,749
East South Central	151,077	147,720	145,445	264	282	289	0.20	11,041	8,904	16,689
Kentucky	43,633	42,477	42,357	47	40	43	0.10	1,517	1,561	1,694
Tennessee	44,823	44,501	43,451	73	96	129	0.30	3,049	3,252	8,717
Alabama	34,974	34,639	34,427	95	73	57	0.17	4,459	1,660	4,392
Mississippi	27,647	28,103	25,210	49	73	60	0.24	2,016	2,441	1,886
West South Central	247,656	242,938	251,702	357	423	379	0.15	25,035	22,049	16,073
Arkansas	29,775	28,456	28,903	31	36	36	0.12	1,166	1,830	941
Louisiana	39,067	37,850	38,973	97	96	89	0.23	3,427	4,358	2,936
Oklahoma	39,050	37,902	38,680	46	47	48	0.12	4,304	1,438	2,107
Texas	139,764	138,730	145,146	183	244	206	0.14	16,138	14,423	10,089
Mountain	98,133	98,141	100,501	213	310	295	0.29	7,877	8,806	13,249
Montana	11,536	11,495	11,682	9	14	21	0.18	140	230	248
Idaho	11,079	10,884	10,652	26	22	12	0.11	1,010	856	477
Wyoming	6,486	6,222	6,409	7	3	11	0.17	150	47	608
Colorado	29,943	29,180	30,080	38	52	86	0.29	2,084	2,052	3,948
New Mexico	12,205	12,324	12,843	15	22	18	0.14	910	752	1,706
Arizona	11,446	11,781	12,343	68	107	93	0.75	1,910	2,085	2,177
Utah	11,949	12,500	12,613	39	45	24	0.19	1,001	1,557	1,595
Nevada	6,494	3,656	3,879	11	45	30	0.77	663	1,227	2,490
Pacific	265,529	259,807	262,156	2,149	2,844	2,811	1.07	79,293	99,535	89,785
Washington	43,681	41,589	42,393	128	178	217	0.51	4,005	5,251	6,204
Oregon	30,491	29,233	28,724	79	108	120	0.42	2,917	4,921	4,146
California	191,357	188,985	191,030	1,942	2,558	2,474	1.30	72,371	89,363	79,435

<sup>1</sup> Represents number of names listed in July issue of the *Dun & Bradstreet Reference Book*. See table 606 for class of industries covered.

Source: Dun & Bradstreet, Inc., New York, N. Y. Monthly data published currently in *Dun's Statistical Review*.

No. 608.—PATENT APPLICATIONS AND PATENTS AND CERTIFICATES OF REGISTRATION: 1901 TO 1955

[Data comprise patents issued to citizens of United States and residents of foreign countries. On July 1, 1940, jurisdiction of prints and labels was transferred to the Copyright Office, Library of Congress, and data concerning them are compiled by that organization. For information on copyrights, see table 637, p. 525. See also *Historical Statistics*, series P 176-187.]

CALENDAR YEAR OR PERIOD	Patent applications <sup>1</sup>	PATENTS ISSUED				CERTIFICATES OF REGISTRATION ISSUED					
		Total	Patents	Plant patents	Designs	Reis- sues	Total <sup>2</sup>	Trade- marks	Trade- mark renew- als	Labels	Prints
1901-1905	253,417	146,291	143,701	-----	3,053	547	18,590	12,768	-----	4,570	1,243
1906-1910	307,187	175,618	171,560	-----	3,207	761	36,375	32,060	-----	2,856	1,459
1911-1915	350,937	194,387	186,241	-----	7,295	851	32,381	27,369	-----	3,522	1,490
1916-1920	368,737	207,108	197,644	-----	8,486	978	35,364	30,681	-----	3,411	1,272
1921-1925	428,591	217,525	203,077	-----	12,326	1,222	81,566	68,881	3,278	7,361	3,046
1926-1930	450,904	234,857	219,384	-----	13,700	1,677	97,458	71,469	12,796	8,736	4,457
1931-1935	342,861	256,219	239,092	161	15,079	1,887	72,721	52,432	9,220	8,466	2,603
1936-1940	350,544	229,514	200,902	275	26,458	1,879	71,785	52,700	8,408	4,128	4,2,540
1941-1945	294,273	184,573	164,438	229	18,883	1,023	52,203	34,447	17,756	-----	-----
1946-1950	400,342	163,122	144,160	335	18,018	609	85,654	61,372	24,282	-----	-----
1951-1955	379,053	209,215	192,898	441	15,086	700	100,971	83,340	17,631	-----	-----
1948	75,952	28,006	23,973	44	3,968	111	16,530	11,474	5,056	-----	-----
1949	74,810	39,809	35,147	93	4,451	118	19,769	15,972	3,797	-----	-----
1950	74,295	48,009	43,072	90	4,718	120	20,393	16,829	3,564	-----	-----
1951	64,949	48,719	44,363	58	4,164	134	20,730	17,380	3,350	-----	-----
1952	68,384	46,890	43,667	101	2,959	163	19,598	16,179	3,419	-----	-----
1953	80,486	43,459	40,516	78	2,714	151	18,720	15,617	3,103	-----	-----
1954	82,968	36,064	33,872	101	2,536	155	19,443	15,952	3,491	-----	-----
1955	83,266	33,483	30,480	103	2,713	187	22,480	18,212	4,268	-----	-----

<sup>1</sup> Figures include patents for inventions, designs, and reissues of patents. Includes applications without fees from 1918 to date.

<sup>2</sup> Beginning 1947, excludes trade-mark republications (under Trade-Mark Act of 1946) of trade-marks registered under prior acts.

<sup>3</sup> Data for year 1925.

<sup>4</sup> Figures for 1940 are for the 6-month period ended June 30, 1940.

<sup>5</sup> Due to change in reporting base, 1953 figures include applications received from Dec. 24, 1952, through Dec. 31, 1953.

Source: Department of Commerce, United States Patent Office; records (not published elsewhere). Fiscal year figures published in *Annual Report of the Secretary of Commerce*.

No. 609.—PATENTS AND DESIGNS GRANTED TO RESIDENTS OF FOREIGN COUNTRIES: 1950 TO 1955

[See also *Historical Statistics*, series P 180]

COUNTRY	1950	1952	1953	1954	1955	COUNTRY	1950	1952	1953	1954	1955
<b>Total</b>	4,408	5,635	4,331	4,433	4,066	Italy	38	106	109	109	112
Argentina	25	57	54	42	23	Japan	2	8	17	21	50
Australia	68	80	55	44	38	Mexico	14	24	25	22	29
Austria	21	57	51	53	28	Netherlands	357	435	222	219	210
Belgium	47	90	76	73	62	New Zealand	10	19	19	10	9
Brazil	7	20	11	10	13	Norway	42	64	31	39	31
Canada	492	522	453	412	391	Philippines, Repub- lic of the	5	6	5	2	2
Czechoslovakia	47	67	22	11	5	Poland	-----	2	1	-----	-----
Cuba	20	18	12	19	9	Scotland	59	81	43	59	38
Denmark	60	85	32	40	37	Spain	18	26	20	24	13
England	1,521	1,774	1,332	1,215	1,077	Sweden	294	402	256	285	246
Finland	9	20	7	9	12	Switzerland	429	520	362	359	340
France	685	746	543	503	397	Union of South Africa	25	21	15	18	11
Germany	25	256	473	747	818	Union of Soviet So- cialist Republics	1	2	-----	-----	-----
Hungary	3	6	1	1	3	Wales	6	10	4	6	57
Ireland <sup>1</sup>	9	5	3	3	5	All other countries	69	102	76	77	57

<sup>1</sup> Includes Northern Ireland and Eire.

Source: Department of Commerce, United States Patent Office; records (not published elsewhere).

FIG. XXXI.—BROADCAST REVENUES OF RADIO AND TV STATIONS: 1945 TO 1954

[Excludes FM (independents). See table 622]

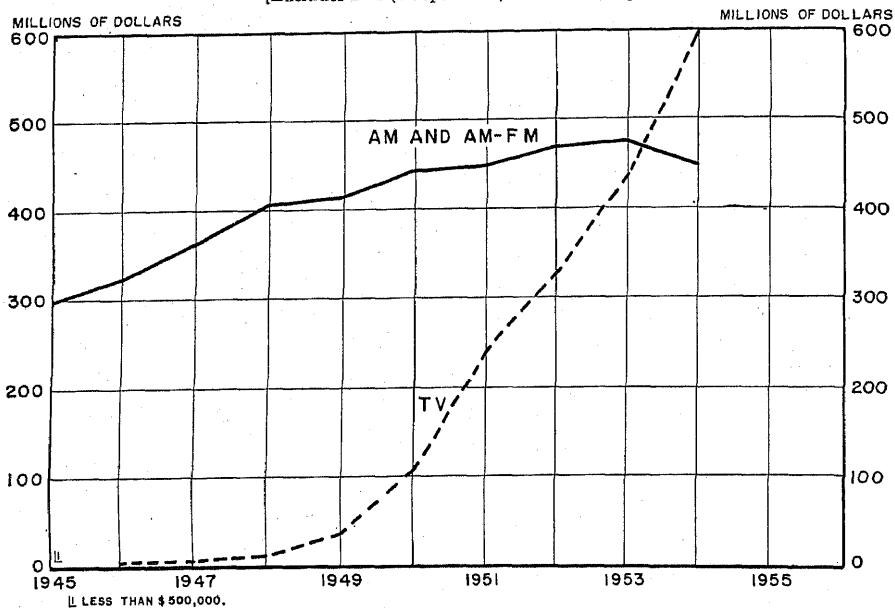
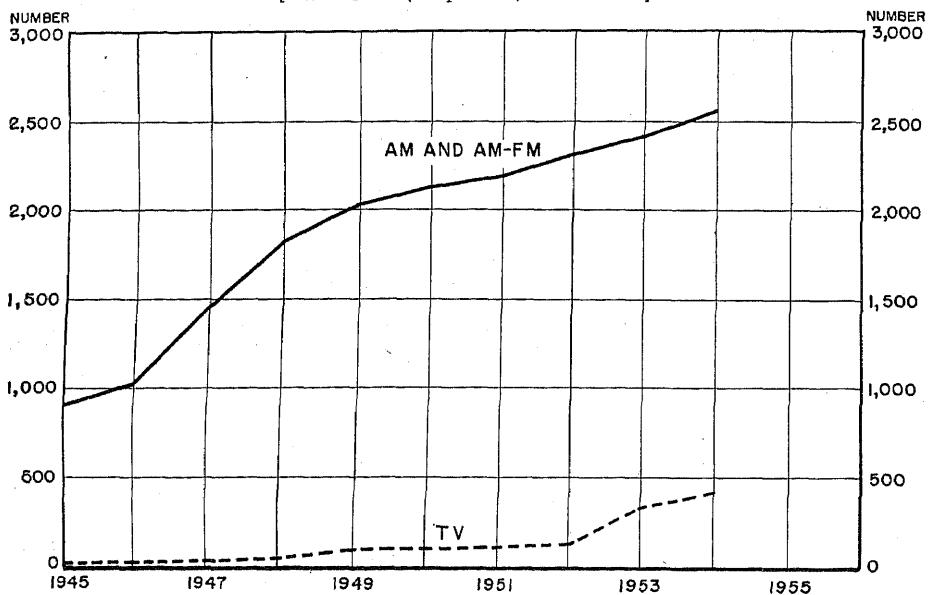


FIG. XXXII.—NUMBER OF RADIO AND TV STATIONS: 1945 TO 1954

[Excludes FM (independents). See table 622]



Source of figs. XXXI and XXXII: Charts prepared by Department of Commerce, Bureau of the Census. Data are from Federal Communications Commission.

## Section 18

### Communications

This section presents statistics relating to the usage, finances, and operations of the various communications media (wire, wireless, and printed and written matter). The principal sources of wire and wireless data are the Federal Communications Commission's annual *Statistics of the Communications Industry in the United States*, and *Annual Report*. Data concerning the postal service are included in the *Annual Report of the Postmaster General*. Statistics as to revenues, volume of mail, and the distribution of expenditures by classes of mail and services are presented in the Post Office Department's annual *Cost Ascertainment Report*.

Since the establishment of the Federal Communications Commission in 1934, statistical coverage of wire and wireless communications has been concentrated in that agency. According to the Communications Act of 1934, as amended, only carriers engaged in interstate, or foreign, communications service by means of their own facilities (or through the facilities of another carrier under direct or indirect common control) are subject to the full jurisdiction of the Commission. The Commission requires the filing of annual and monthly reports by these carriers except from the smallest carriers. The companies controlling any but the smallest of these carriers are also required to file annual reports.

**Telephone and telegraph systems.**—Practically all the wire-telegraph, ocean-cable, and radiotelegraph carriers are subject to the full jurisdiction of the Federal Communications Commission. A large number of telephone carriers engaged in interstate or foreign service only by connection with the facilities of another unaffiliated carrier are not subject to the full jurisdiction of the Commission. However, it is estimated that the gross operating revenues of the telephone carriers reporting annually cover over 90 percent of the revenues of all telephone carriers in the United States.

The term "system" is used, in general, for aggregations of lines operated by the larger companies. "Bell System" as referred to here, consists of the American Telephone & Telegraph Co. and its principal telephone subsidiaries.

**Broadcasting.**—The number of broadcast stations refers to the number licensed or holding construction permits. Total broadcast revenues are defined as total time sales of all networks and stations, less commissions to agencies and plus incidental revenues, such as sale of talent, program material, etc. Reports filed with the Federal Communications Commission by broadcast stations and networks cover substantially all units in the industry which operate in the United States and its Territories, possessions, etc.

**Postal Service.**—The postal statistics, unless otherwise noted, include data for outlying Territories, possessions, etc., except the Canal Zone; the Philippine Islands are excluded for all years.

"Cost ascertainment" is the term applied in the Post Office Department to describe its plan or system, partly accounting and partly statistical, for developing through the medium of a sampling procedure, data on the revenues, expenses, volumes, and average hauls fairly attributable to each of the several classes of mail handled by the Postal Service (first, second, third, fourth, foreign, penalty, franked,

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Note.—This section presents data for the most recent year or period available on April 25, 1956, when the material was organized and sent to the printer.

free for the blind, and air mail) and similar revenue, expense, and volume data for each of its special services (special delivery, money order, insurance, collect-on-delivery, registry, and postal savings). Some of these types of information are also required for items classified as "unassignable" and for the several nonpostal services.

**Historical statistics.**—Tabular headnotes (as "See also *Historical Statistics*, series P 165-167") provide cross-references, where applicable, to *Historical Statistics of the United States, 1789-1945*. See preface.

No. 610.—AMERICAN TELEPHONE & TELEGRAPH CO. AND PRINCIPAL TELEPHONE SUBSIDIARIES (BELL TELEPHONE SYSTEM)—SUMMARY: 1925 TO 1955

[As of December 31]

ITEM	1925	1930	1935	1940	1945	1950	1954	1955
Telephones.....1,000	11,910	15,187	13,573	17,484	22,446	35,343	43,322	46,218
Central offices, number.....	6,147	6,639	6,898	7,052	7,374	8,470	9,523	9,751
Miles of pole line.....	394,520	428,212	407,454	399,838	420,000	502,822	(1)	(1)
Miles of wire.....1,000	44,943	74,124	78,626	80,306	90,759	141,781	182,194	197,145
In underground cable.....	27,769	45,116	47,639	54,339	60,759	86,963	109,044	116,384
In aerial cable.....	12,835	23,777	26,425	30,307	33,966	48,240	65,905	73,279
Open wire.....	4,339	5,231	4,562	4,660	5,034	6,578	7,245	7,482
Percent total wire mileage in cable.....	90.3	92.9	94.2	94.8	95.0	95.3	96.0	96.2
Average daily telephone con- versations, total.....1,000	50,141	64,034	60,290	70,303	90,548	140,782	159,595	168,936
Local.....	48,051	61,150	58,066	76,560	85,877	134,870	153,041	161,788
Toll and long distance.....	2,090	2,884	2,224	2,743	4,671	5,912	6,564	7,148
Total plant.....\$1,000	2,566,800	4,028,836	4,187,790	4,747,674	5,702,057	10,101,522	14,131,277	15,340,495
Operating revenue.....do.....	737,560	1,075,228	919,116	1,174,322	1,930,889	3,261,528	4,784,500	5,297,043
Taxes.....do.....	58,113	84,732	94,507	184,770	309,917	499,461	885,360	1,041,418
Employees, number <sup>2</sup> .....	335,858	391,746	268,754	323,701	474,527	602,466	685,944	745,629
American Tel. & Tel. Co. stockholders, num- ber.....	362,179	567,694	657,465	630,902	683,897	985,583	1,307,215	1,408,851

<sup>1</sup> Not available.

<sup>2</sup> Includes employees of Western Electric Co. and Bell Telephone Laboratories.

Source: American Telephone & Telegraph Co., New York, N. Y.; *Annual Report*.

No. 611.—TELEPHONES—NUMBER AND WIRE MILEAGE IN ALL SYSTEMS, AND NUMBER OF TELEPHONES IN THE BELL SYSTEM: 1880 TO 1955

[As of December 31. Number of telephones represents total number of instruments in service]

YEAR	Total tele- phones <sup>1</sup>	Total miles of wire <sup>1</sup>	Telephones in Bell System <sup>2</sup>	YEAR	Total tele- phones <sup>1</sup>	Total miles of wire <sup>1</sup>	Telephones in Bell System <sup>2</sup>
1880.....	47,900	30,000	47,900	1934.....	16,869,000	86,800,000	16,797,000
1885.....	155,800	156,000	155,800	1935.....	17,424,000	87,200,000	17,354,000
1890.....	227,900	332,000	227,900	1936.....	18,433,000	88,100,000	18,382,000
1895.....	339,500	722,000	309,502	1937.....	<sup>3</sup> 19,453,401	<sup>3</sup> 90,831,421	19,385,000
1900.....	1,355,900	2,807,000	855,911	1938.....	10,653,000	92,850,000	19,885,000
1905.....	4,126,900	8,470,000	2,530,924	1939.....	20,831,000	95,150,000	20,764,000
1910.....	7,635,400	16,937,000	5,882,719	1940.....	21,928,000	99,250,000	21,861,000
1915.....	10,523,500	24,792,000	9,172,495	1941.....	23,521,000	105,550,000	23,451,000
1920.....	13,329,400	32,000,000	12,601,935	1942.....	24,919,000	108,300,000	24,883,000
1921.....	13,875,200	34,000,000	13,880,219	1943.....	26,381,000	108,000,000	26,315,000
1922.....	<sup>3</sup> 14,347,395	<sup>3</sup> 37,265,958	13,915,379	1944.....	26,859,000	109,000,000	26,843,000
1923.....	15,369,500	41,400,000	15,000,101	1945.....	27,867,000	110,700,000	27,853,000
1924.....	16,072,800	46,500,000	15,822,934	1946.....	31,611,000	116,600,000	31,597,000
1925.....	16,935,000	52,200,000	16,720,224	1947.....	34,867,000	125,500,000	34,854,000
1926.....	17,746,000	67,960,000	17,574,252	1948.....	35,205,000	137,000,000	35,193,000
1927.....	<sup>3</sup> 18,522,767	<sup>3</sup> 63,836,182	18,365,000	1949.....	40,709,000	147,300,000	40,699,000
1928.....	19,341,000	69,130,000	19,197,000	1950.....	43,004,000	156,700,000	42,995,000
1929.....	20,068,000	76,460,000	19,958,000	1951.....	45,036,000	165,100,000	45,628,000
1930.....	20,201,000	83,110,000	20,008,000	1952.....	48,056,000	176,000,000	48,052,000
1931.....	19,690,000	86,100,000	19,596,000	1953.....	50,373,000	188,200,000	50,369,000
1932.....	<sup>3</sup> 17,424,406	<sup>3</sup> 87,677,586	17,341,000	1954.....	52,806,000	201,500,000	52,803,000
1933.....	16,711,000	87,000,000	16,635,000	1955.....	56,243,000	218,100,000	56,240,000

<sup>1</sup> American Telephone & Telegraph Co. estimates, except as indicated.

<sup>2</sup> Bell-owned and Bell-connecting (owned by other companies).

<sup>3</sup> Bureau of the Census data.

Source: American Telephone & Telegraph Co., New York, N. Y.; *Annual Report* and records.

## No. 612.—TELEPHONE SYSTEMS—SUMMARY, CLASS A CARRIERS: 1926 TO 1954

[All money figures in thousands. Includes Hawaii and Puerto Rico. Excludes intercompany duplications. Covers class A telephone carriers filing annual reports with F. C. C. Class A carriers are those whose annual operating revenues exceeded \$100,000 for years prior to 1951, and \$250,000 thereafter; comparability of data relatively unaffected by change in coverage. Gross operating revenues of class A carriers (excluding intercompany duplications of Bell System) reporting in 1937 represented approximately 94 percent of revenues of all telephone carriers as reported for Census of Electrical Industries for that year]

YEAR	Miles of wire (1,000)	Telephones (1,000)	Employees, number <sup>1</sup>	Total compensation <sup>2</sup>	YEAR	Miles of wire (1,000)	Telephones (1,000)	Employees, number <sup>1</sup>	Total compensation
1926	54,541	14,413	323,217	\$432,210	1947	117,651	31,277	556,682	\$1,435,509
1929	73,775	17,026	387,778	550,210	1948	129,206	34,224	585,456	1,666,587
1930	80,660	17,139	347,106	555,951	1949	138,367	36,416	559,718	1,764,103
1933 <sup>3</sup>	82,349	14,336	267,871	370,073	1950	147,380	38,625	564,064	1,797,841
1935	82,578	15,157	265,699	402,836	1951	154,810	40,426	586,809	1,975,535
1937 <sup>3</sup>	85,612	17,035	205,777	489,721	1952	164,776	42,404	615,141	2,200,657
1940	93,688	19,336	304,595	537,148	1953	175,929	44,363	626,832	2,378,680
1945	104,388	24,814	308,263	936,060	1954	188,839	46,482	614,369	2,496,657
1946	110,029	28,308	525,175	1,305,431					

YEAR	Number of carriers	Investment in telephone plant	DEPRECIATION AND AMORTIZATION RESERVES		Operating revenues	Operat-ing ratio <sup>4</sup> (per-cent)	Taxes	Net oper-ating income after all tax deductions	Net income	Divi-dends declared
			Amount	Ratio to investment (percent)						
1935	91	\$4,471,787	\$1,106,264	24.74	\$973,043	69.65	\$99,176	\$196,107	\$150,976	\$186,963
1936	87	4,548,692	1,191,737	26.20	1,032,215	66.25	121,542	233,594	204,329	188,532
1937 <sup>3</sup>	81	4,687,695	1,268,009	27.05	1,112,644	67.27	142,386	221,821	201,301	189,502
1938	81	4,796,844	1,323,849	27.60	1,115,020	68.00	152,065	204,702	170,730	185,334
1939	78	4,904,828	1,378,177	28.10	1,172,129	66.13	163,885	233,107	205,934	185,026
1940	78	5,071,277	1,437,727	28.35	1,243,292	65.33	193,637	237,301	221,234	185,080
1945	76	6,056,982	2,166,601	35.77	2,037,079	65.89	420,626	274,193	190,645	193,206
1946	74	6,681,967	2,349,391	35.16	2,211,519	75.73	273,162	263,634	227,237	199,314
1947	73	7,736,202	2,513,296	32.25	2,355,810	80.38	260,761	201,421	170,684	203,978
1948	71	9,106,035	2,664,208	29.26	2,773,408	78.92	310,634	274,121	228,478	218,755
1949	71	9,983,486	2,795,295	28.00	3,056,485	77.47	366,640	322,099	252,214	234,251
1950	71	10,702,322	2,979,466	27.84	3,444,568	71.52	525,985	454,999	371,520	269,733
1951	56	11,546,813	3,186,344	27.60	3,817,537	70.68	659,279	460,160	377,423	303,375
1952	54	12,608,517	3,411,441	27.06	4,228,750	70.63	737,732	504,452	420,733	346,388
1953	54	13,749,883	3,618,086	26.31	4,628,118	69.64	838,053	567,192	496,507	398,972
1954	52	14,898,749	3,836,432	25.75	5,013,181	68.55	929,144	647,660	569,600	440,585

<sup>1</sup> As of Dec. 31 prior to 1943; end of October, thereafter. <sup>2</sup> Data for 1926 through 1930 include estimates.

<sup>3</sup> In comparing figures in this table, consideration should be given to the minor effect of revisions of Uniform System of Accounts, effective Jan. 1, 1933, and Jan. 1, 1937, resulting in certain changes in and rearrangements of both balance sheet and income statement. <sup>4</sup> Ratio of operating expenses to operating revenues.

Source: Federal Communications Commission; annual report, *Statistics of the Communications Industry in the United States*.

## No. 613.—RURAL ELECTRIFICATION ADMINISTRATION—TELEPHONE LOAN ALLOCATIONS, MILES OF POLE LINE, AND SUBSCRIBERS: 1949 TO 1955

[For years ending December 31. Cumulative beginning October 28, 1949]

YEAR	TOTAL LOAN ALLOCATIONS <sup>1</sup>		MILES OF POLE LINE			SUBSCRIBERS PROVIDED FOR		
	Borrowers	Amount	Total	To be added <sup>2</sup>	Present <sup>3</sup>	Total	To be added	Present
1950	61	\$18,831,000	21,408	19,833	1,575	74,585	45,449	29,136
1951	146	54,221,500	62,604	47,391	5,213	187,972	101,062	86,910
1952	231	106,123,718	86,108	79,151	6,957	291,771	160,377	131,394
1953	240	150,939,218	104,238	96,056	8,182	343,708	186,270	157,438
1954	309	208,646,542	141,079	131,314	9,765	456,709	240,969	215,830
1955	415	273,679,542	178,633	163,484	15,149	606,894	310,700	296,194

<sup>1</sup> Cumulative net loan allocations (rescissions deducted). Includes amounts not yet under loan contract.

<sup>2</sup> Includes miles of pole line to be constructed or rebuilt.

<sup>3</sup> Excludes miles of pole line to be rebuilt.

Source: Department of Agriculture, Rural Electrification Administration; *Agricultural Statistics*.

## No. 614.—TELEPHONE SYSTEMS—SELECTED DATA OF CLASS A CARRIERS, BY STATES AND OTHER AREAS: 1954

[For year ending December 31. Represents class A carriers (those having annual operating revenues exceeding \$260,000) reporting to Federal Communications Commission]

STATE OR OTHER AREA	Miles of wire in cable	Miles of aerial wire	Central offices	NUMBER OF CALLS ORIGINATING FROM COMPANY AND SERVICE TELEPHONES <sup>1</sup>		COMPANY TELEPHONES <sup>2</sup>			State taxes <sup>3</sup>
				Local	Toll	Total	Business	Residence	
	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	
<b>Grand total</b>	<b>1,000 183,215</b>	<b>1,000 5,624</b>	<b>10,899</b>	<b>72,932,453</b>	<b>2,374,743</b>	<b>48,952</b>	<b>13,889</b>	<b>1,000 32,063</b>	<b>\$1,000 4 353,798</b>
<b>States, total</b>	<b>182,668</b>	<b>5,595</b>	<b>10,767</b>	<b>72,559,284</b>	<b>2,367,368</b>	<b>45,774</b>	<b>13,823</b>	<b>31,951</b>	<b>5 352,215</b>
Alabama	2,124	129	130	1,141,008	15,328	475	124	351	2,559
Arizona	831	63	64	409,103	7,257	228	80	148	2,960
Arkansas	801	107	104	456,886	11,539	240	76	164	1,745
California	18,855	262	781	6,568,911	165,673	4,147	1,377	2,770	36,099
Colorado	1,530	128	208	875,740	14,984	520	166	364	3,054
Connecticut	4,341	46	145	1,244,646	80,887	963	267	696	3,545
Delaware	635	11	34	198,923	11,530	153	47	106	311
Dist. of Col.	1,983	—	33	732,858	12,707	536	252	284	2,910
Florida	3,483	96	124	1,232,549	27,906	699	270	420	5,584
Georgia	2,847	184	182	1,456,660	27,238	671	198	473	4,605
Idaho	368	79	116	257,015	7,501	153	44	109	1,350
Illinois	11,890	138	401	3,759,133	199,771	2,921	984	1,937	29,857
Indiana	3,621	123	254	1,555,634	50,953	950	261	689	7,153
Iowa	1,694	163	188	945,707	25,985	562	146	416	2,772
Kansas	1,923	190	194	787,755	17,350	543	146	397	4,285
Kentucky	1,660	140	201	904,854	16,943	455	117	338	2,353
Louisiana	2,844	142	191	1,643,163	25,155	658	184	474	6,118
Maine	750	67	147	333,102	15,957	227	61	166	1,444
Maryland	3,674	89	192	1,110,224	39,406	853	229	624	5,882
Massachusetts	6,012	65	338	2,644,285	138,399	1,823	325	1,298	10,503
Michigan	8,831	212	501	8,859,739	87,063	2,349	618	1,731	10,511
Minnesota	2,848	141	219	1,474,018	31,322	803	227	576	5,406
Mississippi	1,002	132	195	603,654	15,365	277	80	197	3,274
Missouri	4,671	157	251	1,922,401	41,358	1,106	327	779	7,713
Montana	281	77	103	269,235	5,792	160	47	113	937
Nebraska	836	69	124	407,755	9,746	240	70	170	1,786
Nevada	190	32	25	52,356	2,223	36	15	21	436
New Hampshire	464	47	117	194,919	14,005	158	42	116	805
New Jersey	8,467	48	267	2,427,072	302,066	2,072	571	1,501	17,480
New Mexico	462	60	61	304,615	6,470	161	61	100	1,200
New York	25,376	157	886	8,525,573	294,828	6,289	2,136	4,153	74,747
North Carolina	2,462	177	241	1,167,949	29,718	566	166	400	5,952
North Dakota	186	68	144	200,020	4,751	95	29	66	910
Ohio	10,141	187	533	4,019,561	93,105	2,584	676	1,908	15,655
Oklahoma	2,293	163	210	1,077,201	25,752	589	181	408	4,200
Oregon	1,697	84	179	839,325	27,810	491	147	344	4,007
Pennsylvania	12,441	119	503	4,255,795	177,972	3,209	853	2,351	8,883
Rhode Island	1,019	10	41	433,936	15,203	271	76	195	2,207
South Carolina	1,196	98	87	532,825	12,259	208	79	189	2,517
South Dakota	253	86	142	210,264	5,010	127	36	91	830
Tennessee	2,797	179	229	1,761,498	24,647	748	206	542	5,846
Texas	10,159	459	686	4,455,932	84,371	2,166	692	1,474	18,139
Utah	665	51	81	506,434	7,492	235	65	170	1,136
Vermont	261	42	89	114,446	7,959	91	25	166	524
Virginia	3,437	138	219	1,275,369	35,790	776	228	618	4,684
Washington	2,788	159	261	1,355,589	42,266	821	236	585	7,693
West Virginia	1,161	63	137	673,075	19,968	385	102	283	1,586
Wisconsin	3,258	116	152	1,200,278	26,834	835	245	590	6,771
Wyoming	260	42	57	152,294	3,944	89	28	61	537
Hawaii	404	16	60	270,209	3,876	133	39	94	786
Puerto Rico	142	9	72	102,960	3,499	45	27	18	686

<sup>1</sup> Partly estimated.<sup>2</sup> Comprises main, P. B. X. (those directly connected with private branch exchanges), and extension telephones.<sup>3</sup> Includes county, municipal and other taxing-district taxes. Excludes excise taxes collected by telephone carriers from users of telephone services.<sup>4</sup> Includes data for Canada and Cuba not shown separately.<sup>5</sup> Includes \$654,000 not distributed by States.

No. 615.—DOMESTIC AND INTERNATIONAL TELEGRAPH CARRIERS—SUMMARY:  
1930 TO 1954

[All money figures in thousands except average compensation. Figures comprise principal carriers filing annual reports with FCC.]

ITEM	1930	1935	1940	1945	1950	1953	1954
<b>DOMESTIC TELEGRAPH</b>							
Number of carriers <sup>2</sup>	2	2	2	1	1	1	1
Investment in plant and equipment	\$379,869	\$363,216	\$375,021	\$357,784	\$294,451	\$289,448	\$300,126
Depreciation and amortization reserves	\$53,095	\$42,574	\$97,746	\$187,243	\$128,227	\$128,776	\$130,183
Capital stock <sup>1</sup>	\$104,144	\$106,282	\$109,874	\$104,886	\$104,886	\$12,311	\$12,709
Funded debt <sup>1,2</sup>	\$157,602	\$175,888	\$88,881	\$90,981	\$55,922	\$44,414	\$44,105
Total surplus <sup>1</sup>	\$111,332	\$115,980	\$114,256	\$56,233	\$52,084	\$155,470	\$164,719
Revenue messages transmitted <sup>3,4</sup> 1,000	211,971	176,250	191,645	236,169	178,904	162,188	152,552
Message revenues	\$131,453	\$92,332	\$97,906	\$163,415	\$152,248	\$174,650	\$173,820
Total operating revenues	\$148,223	\$106,262	\$114,586	\$182,048	\$177,934	\$208,578	\$209,635
Operating revenue deductions <sup>4</sup>	\$139,141	\$86,076	\$110,886	\$174,848	\$167,280	\$193,863	\$194,657
Operating ratio <sup>4</sup> percent	93.87	90.41	96.74	98.04	98.98	92.95	92.86
Operating income <sup>4</sup>	\$8,596	\$10,186	\$6,222	\$7,200	\$8,664	\$8,972	\$8,770
Net income transferred to earned surplus	\$3,942	\$3,213	\$372	\$7,833	\$7,383	\$13,242	\$4,479
Dividends declared	\$8,188	\$2,090	\$1,045	\$2,433	\$2,459	\$3,600	\$3,730
Miles of wire in cable	1,000	357	426	449	481	333	375
Miles of aerial wire	1,000	1,912	1,820	1,820	1,766	929	776
Number of employees <sup>5</sup>	84,962	62,257	59,670	63,446	40,482	38,957	37,009
Total compensation	\$108,557	\$65,030	\$74,736	\$126,662	\$116,937	\$139,489	\$137,521
Average compensation per employee per annum	\$1,278	\$1,045	\$1,252	\$1,996	\$2,889	\$3,581	\$3,716
<b>INTERNATIONAL TELEGRAPH</b>							
Ocean-cable:							
Number of carriers <sup>5</sup>	5	5	5	5	4	3	3
Investment in plant and equipment	\$119,966	\$116,329	\$111,129	\$109,817	\$97,283	\$92,038	\$93,402
Depreciation and amortization reserves	\$53,030	\$61,570	\$64,492	\$60,722	\$63,911	\$57,642	\$58,213
Capital stock <sup>1</sup>	\$73,723	\$60,723	\$45,841	\$24,941	\$22,255	\$18,255	\$18,255
Funded debt <sup>1,2</sup>	\$26,050	\$21,768					\$1,000
Total surplus <sup>1</sup>	\$26,876	\$9,515	\$10,926	\$10,587	\$1,212	\$1,484	\$1,680
Revenue messages transmitted <sup>3</sup> 1,000	15,258	9,050	7,667	10,531	9,969	10,085	10,610
Message revenues	\$27,245	\$15,633	\$16,733	\$25,334	\$23,392	\$21,473	\$23,431
Total operating revenues	\$27,811	\$16,093	\$17,840	\$26,727	\$24,649	\$29,489	\$32,607
Operating revenue deductions <sup>4</sup>	\$19,813	\$14,948	\$16,039	\$21,704	\$22,263	\$25,908	\$26,537
Operating ratio <sup>4</sup> percent	71.24	92.89	89.90	81.21	90.32	87.86	81.38
Operating income <sup>4</sup>	\$7,712	\$1,002	\$1,434	\$4,013	\$1,937	\$2,059	\$3,488
Net income transferred to earned surplus	\$9,403	\$962	\$1,573	\$5,524	\$2,165	\$913	\$3,071
Dividends declared	\$15,416	\$2,710	\$987	\$20	\$884		\$884
Miles of wire in cable	1,000	104	109	111	107	98	89
Miles of aerial wire	1,000	10	7	8	9	7	7
Number of employees <sup>5</sup>	6,880	5,394	4,534	4,962	5,495	5,678	5,874
Total compensation	\$9,795	\$6,926	\$6,602	\$10,982	\$12,031	\$14,038	\$15,227
Average compensation per employee per annum	\$1,424	\$1,284	\$1,456	\$2,213	\$2,189	\$2,472	\$2,592
<b>Radiotelegraph:</b>							
Number of carriers <sup>7</sup>	7	8	8	6	7	7	7
Investment in plant and equipment	\$27,270	\$31,379	\$30,886	\$28,306	\$38,885	\$39,130	\$40,265
Depreciation and amortization reserves	\$11,064	\$15,034	\$16,748	\$16,475	\$18,929	\$17,706	\$17,774
Capital stock	\$15,922	\$7,554	\$7,724	\$10,456	\$13,614	\$13,182	\$13,182
Funded debt <sup>2</sup>	\$4,875	\$15,812	\$1,227	\$1,026	\$8,807	\$6,915	\$4,616
Total surplus	\$1,242	\$3,200	\$18,600	\$14,098	\$13,777	\$20,872	\$22,741
Revenue messages transmitted <sup>3</sup> 1,000	5,151	6,619	8,952	10,516	12,609	13,640	13,738
Message revenues	\$6,358	\$8,314	\$12,537	\$18,903	\$22,239	\$24,621	\$25,129
Total operating revenues	\$7,549	\$9,267	\$14,247	\$23,152	\$25,684	\$30,238	\$31,204
Operating revenue deductions <sup>4</sup>	\$7,197	\$8,745	\$10,996	\$16,201	\$22,963	\$27,309	\$28,117
Operating ratio <sup>4</sup> percent	95.34	94.37	77.18	69.98	89.41	90.31	90.11
Operating income <sup>4</sup>	\$372	\$479	\$2,259	\$771	\$1,867	\$1,891	\$899
Net income transferred to earned surplus	\$372	\$2,269	\$2,025	\$2,383	\$2,373	\$2,477	\$2,262
Dividends declared	\$1,400	\$888	\$850	\$8	\$400		\$400
Number of employees <sup>5</sup>	2,119	2,740	3,549	4,617	5,264	6,008	5,940
Total compensation	\$3,809	\$4,107	\$6,207	\$14,171	\$18,209	\$23,469	\$24,015
Average compensation per employee per annum	\$1,798	\$1,499	\$1,749	\$3,069	\$3,459	\$3,906	\$4,043

<sup>1</sup> Data for Western Union included in domestic telegraph; not segregable between domestic telegraph and oceanic cable operations.<sup>2</sup> Includes long-term advances from affiliates.<sup>3</sup> Principally as estimated by reporting carriers on basis of actual counts for test periods.<sup>4</sup> Beginning 1946, includes press messages on an unequated basis; prior to 1945, they were included on an equated basis.<sup>5</sup> Includes depreciation and operating taxes.<sup>6</sup> After recorded provision for Federal income taxes for entire company operations (including non-communications activities).<sup>7</sup> Deficit or other reverse item.<sup>8</sup> For 1930, end of June; for 1935-1945, end of December; thereafter, end of October.Source: Federal Communications Commission; annual report, *Statistics of the Communications Industry in the United States*.

## No. 616.—RADIOTELEPHONE SERVICE, BY CLASS: 1952 TO 1954

**In thousands.** As of December 31. For 1954, covers radiotelephone service offered by 29 of the 52 class A telephone carriers; in addition, radiotelephone service with revenue amounting to \$1,263,214 is offered by 3 radiotelegraph carriers and 1 cable carrier, details for which were not reported]

CLASS OF SERVICE	1952		1953		1954	
	Number of chargeable calls	Gross revenues	Number of chargeable calls	Gross revenues	Number of chargeable calls	Gross revenues
<b>FIXED STATIONS</b>						
Message service, total	1,190	\$10,705	1,321	\$11,616	1,416	\$12,188
Overseas, total	920	10,010	1,053	10,918	1,135	11,440
Bermuda and trans-Atlantic	308	3,842	333	3,908	357	4,310
Central and South American and Caribbean	269	2,646	298	2,801	341	3,153
Trans-Pacific	344	3,522	353	3,687	353	3,563
Other			69	73	84	414
Interstate, intrastate, intraterritory and intrapossession	270	695	268	698	281	748
Private line service, overseas		215		164		130
<b>MOBILE STATIONS</b>						
Marine service to mobile stations	500	856	646	941	656	1,023
General service	447	783	501	859	518	934
Dispatching service	143	74	144	82	138	89
Domestic public land mobile radio services <sup>1</sup>	2,912	2,3787	3,192	4,444	3,519	5,187
General service	2,066	2,820	2,357	3,441	2,699	4,176
Direct dispatching service	795	892	787	929	770	937
Signalling or paging service	52	65	49	66	50	66
Other		9		8		8
Private mobile radiotelephone systems		2,247		2,735		3,737

<sup>1</sup> In addition, there were in operation as of Dec. 31, 1952, 1953, and 1954, 193, 250, and 300, respectively, other mobile radio systems, of which most were operated by small miscellaneous common carriers. Gross revenues reported were \$700,333, \$1,104,773, and \$1,522,481 for 1952, 1953, and 1954, respectively.

<sup>2</sup> Includes monthly charges, installation and move charges.

Source: Federal Communications Commission; annual report, *Statistics of the Communications Industry in the United States*.

## No. 617.—WESTERN UNION TELEGRAPH CO.—LINE AND WIRE MILEAGE, OFFICES AND FINANCES: 1867 TO 1955

YEAR ENDING—	Miles of pole line and cable <sup>1</sup>	Miles of wire <sup>1</sup>	Channel miles in carrier-equipped circuits <sup>2</sup>	Number of offices <sup>3</sup>	Receipts	Expenses	Net income <sup>4</sup>
June 30—					<i>Dollars</i>	<i>Dollars</i>	<i>Dollars</i>
1867	46,270	85,291		2,565	6,568,925	3,944,006	2,624,920
1870	54,109	112,191		3,972	7,138,738	4,910,772	2,227,966
1880	85,645	233,534		9,077	12,782,895	6,945,957	5,833,938
1890	183,917	678,997		19,382	22,387,020	15,074,304	7,312,725
1900	192,705	933,153		22,900	24,758,570	18,593,206	6,165,364
1910	214,360	1,429,049		24,825	33,889,202	26,614,302	7,274,900
Dec. 31—					<i>Dollars</i>	<i>Dollars</i>	<i>Dollars</i>
1915	238,940	1,610,709		25,142	52,475,721	40,972,541	11,503,180
1920	246,214	1,449,710		24,881	121,473,685	108,134,041	13,339,644
1925	246,307	1,635,236		24,428	129,151,617	112,861,832	16,289,785
1930	256,763	1,948,938	3,500	24,298	133,255,751	123,987,619	9,248,232
1935	254,691	1,905,858	3,500	20,964	91,389,312	86,131,234	5,258,078
1940	249,343	1,914,615	27,000	19,140	101,277,546	97,655,965	3,621,581
1945	276,084	2,291,164	150,000	18,687	194,271,046	189,836,541	4,434,505
1948	158,564	1,675,558	1,358,810	17,460	193,140,107	197,427,300	5,287,193
1949	146,990	1,477,925	1,623,442	16,835	180,917,642	185,308,487	5,390,845
1950	132,274	1,337,768	1,787,686	16,202	187,820,635	180,500,859	7,310,776
1951	192,566	1,264,293	1,971,433	15,355	203,229,261	197,824,468	5,404,793
1952	120,797	1,233,473	2,090,455	14,704	196,260,721	195,157,510	1,103,211
1953	119,632	1,190,538	2,470,246	13,693	221,550,435	213,215,690	8,334,736
1954	116,291	1,166,657	2,692,397	12,802	223,287,771	213,902,785	9,384,986
1955	112,326	1,136,941	2,893,409	12,388	243,361,924	230,321,234	13,040,690

<sup>1</sup> Pole and wire mileages reflect acquisition on Oct. 7, 1943, of facilities of Postal Telegraph Companies.

<sup>2</sup> In use chiefly on the company's trunk lines. Data on all telegraph circuits available beginning 1953 as follows:

1953, 3,211,235 miles; 1954, 3,419,546 miles; 1955, 3,622,161 miles.

<sup>3</sup> Excludes agency and commission offices, numbering 10,902 on Dec. 31, 1955.

<sup>4</sup> Figures for 1915 and prior years represent net income before bond interest.

<sup>5</sup> Loss.

Source: Western Union Telegraph Co., New York, N. Y.

No. 618.—COMMERCIAL BROADCAST STATIONS AUTHORIZED AND ON THE AIR:  
1945 TO 1956

[As of Jan. 1. Includes Alaska, Hawaii, Puerto Rico, Virgin Islands, and beginning 1956, Guam. Figures differ from those shown in table 620 because of different tabulations]

YEAR	TOTAL		AM RADIO		FM RADIO		TELEVISION	
	Author- ized	On the air						
1945	969	936	908	884	52	46	9	6
1946	1,236	967	969	913	258	48	9	6
1947	2,221	1,174	1,485	1,027	684	140	52	7
1948	3,010	1,977	1,927	1,586	1,010	374	73	17
1949	3,182	2,627	2,092	1,877	966	700	124	50
1950	3,008	2,881	2,199	2,051	788	733	111	97
1951	3,129	2,081	2,317	2,198	703	676	109	107
1952	3,132	3,042	2,374	2,207	650	637	108	108
1953	3,383	3,102	2,490	2,357	630	616	273	129
1954	3,749	3,403	2,602	2,487	580	560	567	356
1955	3,909	3,660	2,774	2,669	559	552	576	439
1956	4,082	3,846	2,935	2,824	557	540	590	482

Source: Federal Communications Commission.

No. 619.—BROADCAST STATIONS AUTHORIZED AND OPERATORS LICENSED, BY CLASS:  
1953 TO 1955

[As of June 30. Includes Alaska, Hawaii, Puerto Rico, and Virgin Islands]

CLASS OF STATION OR OPERATOR	1953	1954	1955	CLASS OF STATION OR OPERATOR	1953	1954	1955
Safety and special radio authorization	117,337	132,262	148,525	Land transportation—Con. Taxicab	4,018	4,361	4,526
Aeronautical	39,315	40,154	43,855	Highway truck	580	832	1,084
Aircraft	30,515	28,392	30,228	Automobile emergency	227	305	411
Ground	8,800	11,762	13,627	Experimental	444	586	625
Marine	40,357	46,299	50,714	Disaster communications	191	283	317
Ship	39,181	45,050	49,594	Radio Amateur Civil Emer- gency Service	90	754	2,077
Alaskan	884	963	786	Broadcast stations <sup>1</sup>	5,474	5,881	6,296
Coastal	196	210	243	Standard (AM)	2,584	2,697	2,840
Other	96	76	91	Frequency modulation (FM)	601	560	552
Public safety	13,631	15,697	18,415	Television (TV)	483	573	582
Police	8,005	8,728	9,725	Noncommercial educational (TV)	17	30	34
Fire	1,134	1,027	2,337	Television (experimental and auxiliary)	276	415	531
Forestry—Conservation	2,425	2,686	2,907	Noncommercial educational (FM)	116	123	127
Highway maintenance	877	1,088	1,630	International	44	43	39
Special emergency	1,072	1,429	1,839	Remote pickup	1,305	1,384	1,540
State Guard	118	139	188	Studio transmitter (ST)	47	45	43
Public safety (combined)			29	Developmental	1	2	2
Industrial	17,378	21,598	24,854	Radio operators and amateur stations	954,305	1,092,964	1,275,452
Power	6,809	7,562	8,132	Commercial operators	634,166	704,080	924,937
Petroleum	4,540	5,505	6,178	Aircraft radiotelephone op- erators	95,970	277,900	261,426
Forest products	877	1,034	1,144	Amateur operators	108,951	120,535	136,762
Special industrial	4,563	6,587	8,190	Amateur stations	111,389	123,287	139,993
Low-power industrial	419	673	933	Citizens stations	3,829	7,054	12,334
Relay press	54	68	82				
Motion picture	23	32	43				
Other	93	137	152				
Land transportation	5,922	6,891	7,668				
Railroad	928	1,219	1,405				
Urban passenger	101	98	105				
Urban property			31				
Interurban passenger	68	76	64				
Interurban property			42				

<sup>1</sup> Stations licensed or holding construction permits.

<sup>2</sup> Issuance of radiotelephone licenses discontinued Feb. 1, 1954.

Source: Federal Communications Commission; *Annual Report*.

No. 620.—COMMERCIAL BROADCAST STATIONS ON THE AIR, BY STATES AND OTHER AREAS: 1953, 1955, AND 1956

[As of January 1. Stations licensed or holding construction permits]

STATE OR OTHER AREA	1953			1955			1956					
	Total	AM	FM	TV	Total	AM	FM	TV	Total	AM	FM	TV
	3,125	2,367	629	129	3,613	2,680	523	410	3,775	2,804	529	442
Alabama	101	79	18	4	115	93	16	6	117	94	15	8
Arizona	30	27	1	2	39	30	2	7	40	31	2	7
Arkansas	50	44	6	—	60	51	6	3	62	52	5	5
California	191	140	40	11	212	149	37	26	215	150	37	28
Colorado	38	32	3	3	48	37	3	8	54	42	4	8
Connecticut	34	25	8	1	36	26	5	5	37	25	7	5
Delaware	9	6	2	1	9	7	1	1	11	8	2	1
Dist. of Columbia	20	7	9	4	20	7	9	4	19	7	8	4
Florida	102	79	21	2	128	95	19	14	142	106	21	15
Georgia	105	80	22	3	118	89	16	13	128	90	17	12
Idaho	26	23	3	—	31	25	3	3	33	28	—	5
Illinois	124	78	41	5	134	89	28	17	135	90	30	15
Indiana	71	46	22	3	79	51	17	11	86	56	17	13
Iowa	67	49	16	2	77	56	10	11	74	54	8	12
Kansas	39	37	2	—	50	43	1	6	50	41	2	7
Kentucky	57	45	10	2	71	57	11	3	80	64	13	3
Louisiana	58	45	12	1	78	58	12	8	86	63	12	11
Maine	17	15	2	—	23	16	1	6	23	17	1	5
Maryland	36	23	10	3	39	28	7	4	42	31	7	4
Massachusetts	75	51	22	2	75	52	16	7	75	53	16	6
Michigan	96	67	23	6	103	75	16	12	110	76	21	13
Minnesota	57	48	7	2	64	52	6	6	64	51	5	8
Mississippi	49	45	4	—	61	54	3	4	67	61	3	3
Missouri	66	53	11	2	86	66	7	13	96	70	10	16
Montana	25	25	—	—	30	26	—	4	34	30	—	4
Nebraska	26	23	1	2	31	27	—	4	36	29	—	7
Nevada	11	10	1	—	14	10	2	2	17	13	1	3
New Hampshire	15	12	3	—	17	12	4	1	18	13	4	1
New Jersey	32	19	11	2	29	21	6	2	30	23	7	—
New Mexico	28	27	—	1	34	30	—	4	37	32	1	4
New York	156	98	45	13	166	104	41	21	169	106	42	21
North Carolina	141	99	40	2	162	117	34	11	165	121	32	12
North Dakota	13	13	—	—	19	15	—	4	21	15	—	6
Ohio	129	74	41	14	132	80	33	19	131	79	34	18
Oklahoma	52	45	5	2	63	51	2	10	60	51	1	8
Oregon	55	46	8	1	64	53	7	4	70	57	8	5
Pennsylvania	171	113	49	9	196	125	44	27	197	133	41	23
Rhode Island	16	11	4	1	17	12	3	2	18	11	5	2
South Carolina	59	46	13	—	81	55	17	9	82	58	15	9
South Dakota	14	13	1	—	15	14	—	1	20	17	—	3
Tennessee	72	61	9	2	100	79	12	9	106	85	10	11
Texas	221	187	24	10	247	202	16	29	262	212	16	34
Utah	22	18	2	2	24	19	2	3	26	21	2	3
Vermont	10	10	—	—	14	13	—	1	14	13	—	1
Virginia	82	59	20	3	93	68	18	7	97	71	17	9
Washington	62	53	7	2	75	60	5	10	77	61	6	10
West Virginia	55	39	15	1	61	43	11	7	63	44	10	9
Wisconsin	77	61	15	1	95	69	13	13	92	68	13	11
Wyoming	14	14	—	—	17	16	—	1	18	17	—	1
Alaska	10	10	—	—	14	12	—	2	17	13	—	4
Guam	—	—	—	—	—	—	—	—	1	1	—	—
Hawaii	14	12	—	2	17	13	1	3	20	13	1	6
Puerto Rico	23	23	—	—	28	26	—	2	29	26	—	—
Virgin Islands	2	2	—	—	2	2	—	—	2	2	—	—

Source: Federal Communications Commission.

No. 621.—HOUSEHOLDS WITH TV SETS—PERCENT DISTRIBUTION, BY REGIONS: 1955

[As of June. For composition of regions, see figure I, p. XVI; for explanation of urban and rural, see p. 2; and for definition of standard metropolitan areas, see headnote, table 10]

AREA	HOUSEHOLDS WITH—		AREA	HOUSEHOLDS WITH—	
	No set	1 set or more		No set	1 set or more
United States	32.8	67.2	North Central	28.2	71.8
Inside standard metropolitan areas	21.7	78.3	Inside standard metropolitan areas	19.1	80.9
Outside standard metropolitan areas	50.3	49.7	Outside standard metropolitan areas	41.4	58.6
Urban places	44.1	55.9	South	46.8	53.2
Rural territory	54.1	45.9	Inside standard metropolitan areas	29.1	70.9
Northeast	20.3	79.7	Outside standard metropolitan areas	60.3	39.7
Inside standard metropolitan areas	17.8	82.2	West	37.9	62.1
Outside standard metropolitan areas	30.9	69.1	Inside standard metropolitan areas	26.0	74.0
			Outside standard metropolitan areas	59.5	40.5

Source: Department of Commerce, Bureau of the Census; *Housing and Construction Reports*, Series H-121, No. 1.

**NO. 622.—TOTAL BROADCAST REVENUES OF ALL NETWORKS AND STATIONS, AM AND AM-FM, FM AND TV: 1937 TO 1954**

[Includes Alaska, Hawaii, Puerto Rico, and Virgin Islands. Total broadcast revenues are defined as total time sales of all networks and stations, less commissions to agencies and plus incidental revenues, such as sale of talent, program material, etc.]

YEAR	TOTAL		AM AND AM-FM <sup>1</sup>		FM (INDEPENDENTS)		TV <sup>2</sup>	
	Number of stations	Revenues (\$1,000)	Number of stations	Revenues (\$1,000)	Number of stations	Revenues (\$1,000)	Number of stations	Revenues (\$1,000)
1937	629	114,223	629	114,223				
1938	660	111,358	660	111,358				
1939	705	123,882	705	123,882				
1940	765	147,147	765	147,147				
1941	825	168,785	817	168,779	2		6	6
1942	882	178,894	851	178,839	5	13	6	42
1943	852	215,428	841	215,318	5	26	6	84
1944	885	275,550	875	275,299	4	32	6	219
1945	912	299,715	901	299,338	5	39	6	338
1946	1,043	323,228	1,026	322,553	8	17	10	658
1947	1,531	366,032	1,464	363,714	52	422	15	1,896
1948	1,974	416,867	1,824	406,995	103	1,251	47	8,621
1949	2,223	449,544	2,021	413,785	104	1,429	98	34,330
1950	2,336	550,395	2,143	443,058	86	1,422	107	105,915
1951	2,374	686,176	2,200	449,226	66	1,266	108	235,684
1952	2,502	793,915	2,324	468,592	56	1,100	122	324,223
1953	2,813	908,025	2,434	474,585	45	800	334	432,640
1954	3,008	1,042,486	2,555	448,785	43	764	410	502,937

<sup>1</sup> Includes revenues of 4 nationwide networks and 3 regional networks.

<sup>2</sup> Includes revenues of 4 TV networks beginning in 1948 when commercial TV network operation started.

Source: Federal Communications Commission.

**NO. 623.—COMPARATIVE FINANCIAL DATA FOR RADIO BROADCAST INDUSTRY: 1949 TO 1954**

[Money figures in thousands of dollars. Excludes FM (independents). Includes Alaska, Hawaii, Puerto Rico, and Virgin Islands]

ITEM	1949	1950	1951	1952	1953	1954
Number of networks	7	7	7	7	7	7
Number of stations	2,021	2,143	2,200	2,324	2,434	2,555
Broadcast revenues, total	413,785	443,068	449,226	468,592	474,585	448,785
7 networks (including owned and operated stations)	108,080	110,478	104,029	100,620	97,333	88,593
Other stations	305,705	332,579	345,197	337,972	377,252	360,192
Broadcast expenses of networks and stations	357,522	372,314	389,975	407,516	418,789	406,334
7 networks (including owned and operated stations)	90,606	91,494	93,984	89,397	86,922	80,444
Other stations	266,916	280,820	296,041	318,119	331,867	325,890
Broadcast income before Federal income tax	56,203	70,743	59,251	61,076	55,796	42,451
7 networks (including owned and operated stations)	17,474	18,084	10,005	11,223	10,411	8,149
Other stations	38,789	51,759	49,156	49,853	45,385	34,302
<b>BROADCAST REVENUES</b>						
Revenues from time sales, net	375,050	401,089	404,551	420,505	426,010	404,117
Commissions to regularly established agencies, representatives, brokers and others	50,307	52,476	51,501	52,646	51,196	47,213
Revenues from time sales, total	425,357	453,565	456,112	473,151	477,206	451,330
Revenues from network time sales, net	134,898	131,530	122,034	109,862	98,057	83,684
Payments to foreign stations and elimination of miscellaneous duplications	1,363	1,411	1,31	1,452		
Network time sales to:						
Nationwide networks	130,766	126,044	113,984	102,076	92,865	78,917
Regional networks	3,854	3,962	4,664	4,413	4,235	3,883
Miscellaneous networks and stations	2,141	2,935	3,817	2,921	957	884
Revenues from non-network time sales to:						
National and regional advertisers and sponsors	108,315	118,824	119,559	123,658	129,605	120,168
Local advertisers and sponsors	182,144	203,211	214,519	230,631	249,544	247,478
Revenues from incidental broadcast activities, total	38,735	41,968	44,675	48,087	48,575	44,668
Talent	21,998	25,202	26,889	33,418	33,616	30,800
Sundry broadcast revenues	16,737	16,766	17,786	14,669	14,959	14,140

<sup>1</sup> Reverse item.

Source: Federal Communications Commission; annual release, *Final AM and FM Financial Data*.

**No. 624.—COMPARATIVE FINANCIAL DATA FOR TELEVISION BROADCAST INDUSTRY:  
1949 TO 1954**

[Money figures in millions of dollars. Includes Alaska, Hawaii, Puerto Rico, and Virgin Islands]

ITEM	1949	1950	1951	1952	1953	1954
Number of networks.....	4	4	4	4	4	4
Number of stations.....	98	107	108	122	1,260	1,393
Broadcast revenues, total.....	34.3	105.9	235.7	324.2	432.6	592.9
4 networks (including owned and operated stations).....	19.3	55.5	128.4	180.2	231.7	306.7
Other stations.....	15.0	50.4	107.3	144.0	200.9	286.2
Broadcast expenses of networks and stations.....	59.6	115.1	194.1	268.7	360.5	502.6
4 networks (including owned and operated stations).....	31.4	65.5	117.4	170.3	213.7	270.2
Other stations.....	28.2	49.6	76.7	98.4	146.8	232.4
Broadcast income before Federal income tax.....	<sup>1</sup> 25.9	<sup>2</sup> 9.2	41.6	55.5	71.3	90.3
4 networks (including owned and operated stations).....	<sup>1</sup> 12.1	<sup>2</sup> 10.0	11.0	9.9	18.0	36.5
Other stations.....	<sup>1</sup> 15.2	.8	30.6	45.6	53.3	53.8
BROADCAST REVENUES						
Revenues from time sales, net.....	23.4	76.3	175.3	236.6	322.2	452.2
Commissions to regularly established agencies, representatives, brokers and others.....	4.1	14.3	53.3	40.5	62.5	85.9
Revenues from time sales, total.....	27.5	90.6	208.6	283.1	384.7	538.1
Revenues from network time sales, net.....	10.8	35.2	97.6	137.7	171.9	241.2
Revenues from non-network time sales to:						
National and regional advertisers and sponsors.....	7.3	25.0	59.7	80.2	124.3	176.8
Local advertisers and sponsors.....	9.4	30.4	51.3	65.2	88.5	120.1
Revenues from incidental broadcast activities, total.....	10.9	29.6	60.4	87.7	109.6	140.7
Talent.....	6.0	15.2	33.0	56.2	70.6	85.0
Sundry broadcast revenues.....	4.9	14.4	27.4	31.5	39.0	55.7

<sup>1</sup> Excludes 17 stations reporting less than \$25,000 in time sales. Such stations accounted for less than 1 percent of the total industry revenues.

<sup>2</sup> Loss.

Source: Federal Communications Commission; annual release, *Final TV Broadcast Financial Data*.

**No. 625.—POSTAL SERVICE EXPENDITURES, BY OBJECT: 1951 TO 1955**

[In thousands of dollars. For years ending June 30. Data cover expenditures during specified year and include unliquidated obligations, whether on account of that year or of previous years. See text, p. 507]

OBJECT	1951	1952	1953	1954	1955
Total expenditures.....	2,333,138	2,679,818	2,760,011	2,676,914	2,738,464
Postal operations.....		2,093,102	2,166,379	2,179,613	2,265,617
Salaries and travel of postmasters and assistants.....	129,342	148,529	153,993	<sup>1</sup> 242,149	248,833
Salaries and travel of clerks, etc.....	730,175	869,071	905,170	802,033	825,938
City delivery service.....	395,708	466,000	483,884	506,223	534,890
Rural delivery service.....	168,982	188,911	192,430	191,772	194,945
Postal transportation service.....	146,087	170,626	180,960	178,723	180,178
All other.....		249,964	249,941	258,713	280,833
Transportation of mails.....		557,958	565,293	466,535	429,405
Railroad and electric car.....	322,590	358,989	344,569	317,793	297,166
Star route.....		38,262	41,231	40,709	40,026
Short haul truck.....		3,150	6,139	7,872	9,352
Powerboat.....		2,030	2,823	2,833	2,544
Highway post offices.....		1,863	2,644	2,849	3,822
Domestic air mail.....	67,946	67,844	72,634	46,590	33,720
Foreign air mail.....	58,961	57,582	63,264	30,736	27,135
Other foreign mail <sup>2</sup> .....		27,262	31,990	17,153	15,641
Other <sup>3</sup> .....		75			
Miscellaneous.....		5,931	6,381	6,576	5,715
General administration and overhead apportioned.....		22,827	21,958	24,190	37,682
Miscellaneous items, other agencies.....					45

<sup>1</sup> Beginning 1954, includes supervisors; formerly included with clerks.

<sup>2</sup> Includes terminal and transportation charges by foreign countries.

<sup>3</sup> Includes rental of truck terminal facilities.

Source: Post Office Department; *Cost Ascertainment Report*.

## No. 626.—UNITED STATES POSTAL SERVICE—SUMMARY: 1800 TO 1955

[For years ending June 30. See text, p. 507. For financial data, see also *Historical Statistics*, series P 165-167]

YEAR	Number of post offices	FINANCES			Revenue per capita	MONEY ORDERS ISSUED		Sales of postage stamps and other stamped paper	Postage paid under permit (1st, 2d, 3d, and 4th class)	Number of pieces of mail handled <sup>4</sup>
		Gross revenue	Gross expenditure	Surplus (+) or deficit (-) <sup>1</sup>		Domestic <sup>2</sup>	International <sup>3</sup>			
1800	903	\$1,000	\$1,000	\$1,000	Dollars	\$1,000	\$1,000	\$1,000	\$1,000	Millions
1810	2,300	281	214	+67						
1820	4,500	552	496	+56						
1830	8,450	1,112	1,161	-49						
1840	13,488	4,544	4,718	-82	0.27					
1850	18,417	5,500	5,213	+287	.24					5,124
1860	28,498	8,518	19,171	-10,653	.27					
1865	20,550	14,556	13,695	+917	.42	1,360				
1870	28,492	18,880	23,999	-5,098	.49	34,054	22			
1875	35,547	26,791	33,611	-6,820	.61	77,431	1,965			
1880	42,989	33,315	36,543	-3,222	.66	100,353	3,464			
1885	51,252	42,561	50,046	-7,481	.76	117,859	6,840			
1890	62,401	60,882	66,260	-5,401	.97	114,363	13,230			4,005
1895	70,064	70,983	87,180	-10,230	1.12	156,709	12,906			5,134
1900	76,688	102,355	107,740	-5,410	1.34	238,921	16,749	94,014		7,130
1905	68,131	152,827	167,399	-14,594	1.52	401,916	42,503	139,617	850	10,188
1910	59,580	224,129	229,977	-5,881	2.43	558,178	89,555	202,065	4,418	14,850
1915	56,380	287,248	298,546	-11,333	2.85	665,249	51,662	256,037	7,527	
1920	52,641	437,150	454,323	-17,270	4.11	1,342,268	23,392	379,587	12,900	
1925	50,957	509,691	639,282	-39,745	5.28	1,549,487	35,730	507,572	39,302	25,835
1930	49,063	705,484	803,667	-98,216	5.75	1,735,496	51,758	574,851	73,545	27,888
1935	45,680	630,795	696,503	-65,808	4.94	1,829,137	22,336	473,407	96,206	22,332
1940	44,024	766,949	807,629	-40,784	5.84	2,103,092	13,120	521,753	176,503	27,749
1945	41,782	1,314,240	1,145,002	+169,139	9.41	4,827,330	21,107	953,770	252,318	37,912
1946	41,751	1,224,572	1,353,650	-129,082	8.69	4,765,945	20,859	843,417	233,011	36,318
1947	41,760	1,299,141	1,504,805	-205,688	9.02	4,221,525	19,619	801,437	304,903	37,428
1948	41,695	1,410,971	1,687,759	-276,884	9.62	4,588,948	17,260	820,904	463,500	40,280
1949	41,607	1,571,851	2,140,297	-577,471	10.53	4,874,331	14,374	856,266	582,596	43,555
1950	41,484	1,677,487	2,222,906	-545,422	11.05	4,641,242	15,760	862,313	675,317	45,064
1951	41,193	1,776,816	2,341,382	-564,583	11.51	5,236,131	20,334	883,357	740,525	46,908
1952	40,919	1,947,316	2,666,844	-719,544	12.40	5,045,587	26,602	948,430	836,310	49,906
1953	40,609	2,091,714	2,742,035	-650,412	13.24	6,033,322	30,330	985,172	951,147	50,948
1954	39,405	2,268,517	2,667,566	-399,147	14.12	6,047,737	33,234	998,965	1,053,207	52,213
1955	38,316	2,349,477	2,712,150	-362,674	14.33	5,864,832	730,075	999,985	1,133,636	55,234

<sup>1</sup> Audited postal surplus or deficit which is greater or less than excess of receipts or expenditures by the amount of adjusted losses and contingencies.<sup>2</sup> First issued Nov. 1, 1864.<sup>3</sup> First issued Sept. 1, 1869.<sup>4</sup> Continental United States only. Data for years prior to 1926 are estimates.<sup>5</sup> 1847 data.<sup>6</sup> Net revenue.<sup>7</sup> Estimated.Source: Post Office Department; *Annual Report of the Postmaster General and Cost Ascertainment Report*.

## No. 627.—POSTAL SERVICE REVENUES, BY SOURCE: 1920 TO 1955

[In thousands of dollars. For years ending June 30. See text, p. 507]

ITEM	1920	1925	1930	1935	1940	1945	1950	1954	1955
Total	437,150	599,591	705,484	630,795	766,949	1,314,240	1,677,487	2,268,517	2,349,477
Ordinary postal revenue	424,406	585,333	686,426	598,358	732,137	1,246,777	1,605,940	2,184,630	2,266,254
Stamps, postal cards, etc.	379,587	507,572	574,851	473,407	521,753	953,770	862,313	998,965	998,741
Second-class postage paid in money (pound rates) <sup>2</sup>	25,100	29,610	28,584	18,431	23,033	25,286	40,261	58,769	64,485
Other postage paid in money under permit <sup>2</sup>	12,960	30,301	73,545	96,206	176,503	252,318	678,042	1,055,905	1,136,436
Box rents	6,145	7,817	8,539	6,596	7,931	11,033	14,407	24,104	25,989
Miscellaneous	614	1,024	907	3,718	2,917	4,371	10,917	46,797	40,603
Money-order revenues	10,314	12,909	17,496	20,424	23,995	46,671	63,416	68,774	65,649
Interest and profit, Postal Savings System	2,480	1,349	1,562	12,013	10,817	20,792	8,131	15,113	17,574

<sup>1</sup> Net revenue.<sup>2</sup> Beginning 1950, includes fees; previously included with miscellaneous.Source: Post Office Department; *Annual Report of the Postmaster General*.

## No. 628.—DELIVERY SERVICE—CITY AND VILLAGE, RURAL, AND SPECIAL: 1870 TO 1955

[As of June 30]

YEAR	CITY AND VILLAGE DELIVERY			RURAL DELIVERY				SPECIAL DELIVERY	
	Number of offices	Number of regular carriers	Annual cost <sup>1</sup>	Number of routes	Length of routes	Annual travel	Annual cost	Number of specials	Cost of service <sup>2</sup>
1870	8 51	8 1,362	\$1,000						
1880	3 104	3 2,628	8 2,364						
1890	3 454	3 9,066	8 7,978						
1895	3 604	3 12,714	8 12,145						
1900	3 796	3 15,322	8 14,671	1, 259	28,685				
1905	8 1,144	3 21,778	30,923	32,110	721,237				
1910	8 1,492	3 28,715	31,738	41,079	993,068	303,007			
1915	1, 941	33,082	42,668	43,866	1, 076,235	325,305			
1920	2, 729	37,055	63,626	43,445	1, 151,832	348,627	75,795		
1925	3, 218	47,405	95,161	45,189	1, 227,654	370,273	95,131		
1930	3, 813	54,705	127,890	43,278	1, 334,842	404,738	106,338	101,770	12,058
1935	3, 929	50,038	113,153	34,848	1, 355,078	411,361	90,425	70,104	8,333
1938	3, 985	56,607	138,101	33,144	1, 387,445	420,107	91,196	80,064	10,617
1939	3, 999	57,507	141,089	32,839	1, 392,657	421,854	91,170	91,557	11,032
1940	4, 020	59,407	145,355	32,646	1, 401,690	424,704	91,441	96,381	11,488
1941	4, 030	61,958	151,327	32,445	1, 411,573	427,756	91,502	103,538	12,292
1942	4, 057	63,746	157,703	32,292	1, 420,971	430,728	91,636	115,685	13,450
1943	4, 088	59,246	172,360	32,179	1, 425,860	432,281	96,513	135,611	(*)
1944	4, 097	58,344	185,367	32,112	1, 428,476	433,120	104,691	133,340	17,476
1945	4, 124	58,181	191,182	32,106	1, 435,059	435,209	106,853	120,579	16,521
1946	4, 104	65,855	245,756	32,161	1, 441,538	437,248	117,403	102,222	25,497
1947	4, 276	67,814	287,338	32,249	1, 449,767	439,750	128,582	103,597	28,876
1948	4, 369	78,198	308,727	32,412	1, 465,198	444,424	131,119	116,835	29,538
1949	4, 508	86,427	393,208	32,550	1, 480,710	449,361	152,704	120,176	32,063
1950	4, 667	90,216	406,018	32,619	1, 493,365	453,260	159,387	115,044	32,464
1951	4, 707	84,944	397,455	32,513	1, 486,775	451,250	168,856	124,504	34,066
1952	4, 786	86,864	464,404	32,546	1, 499,910	455,345	158,785	122,634	40,511
1953	4, 851	87,537	483,380	32,542	1, 512,689	459,307	192,066	114,158	34,193
1954	4, 948	89,680	485,213	32,370	1, 527,289	463,909	183,507	106,285	34,917
1955	5, 019	91,418	504,835	32,076	1, 544,704	469,283	194,945	105,289	37,490

<sup>1</sup> Represents audited expenditures.<sup>2</sup> Fees paid special messengers plus apportionment of other expenditures.<sup>3</sup> City delivery service.<sup>4</sup> Cost ascertainment work not conducted for 1943.<sup>5</sup> Temporary increase of 15 percent in fees paid to special-delivery messengers.Source: Post Office Department; *Annual Report of the Postmaster General* and *Cost Ascertainment Report*.

## No. 629.—POST OFFICE EMPLOYEES ON ROLLS, BY TYPE: 1930 TO 1955

[As of June 30. For 1945-1955, figures include classified and war-service regular employees of all activities]

TYPE	1930	1935	1940	1945	1950	1954	1955
<b>Total<sup>1</sup></b>	<b>339,542</b>	<b>308,802</b>	<b>353,156</b>	<b>435,955</b>	<b>500,578</b>	<b>507,135</b>	<b>511,613</b>
Full time	254,563	236,472	266,076	278,442	363,774	360,863	366,901
Departmental (bureaus and offices) <sup>2</sup>	1,476	1,287	1,434	1,526	1,775	1,780	1,530
Regional <sup>3</sup>						1,104	2,599
Postmasters	49,066	45,350	44,093	41,792	41,464	39,405	38,316
Assistant postmasters	2,781	2,553	2,701	3,420	3,540	3,782	3,917
Clerks, supervisors, mail handlers, 1st- and 2d-class post offices	76,905	69,358	82,910	93,041	141,092	141,211	145,147
City delivery	53,762	49,084	58,531	57,993	90,189	89,671	91,418
Rural delivery	43,178	34,763	32,570	32,031	32,553	32,316	32,022
Postal transportation	20,574	18,527	20,087	20,546	27,126	29,312	29,224
Custodial service			9,293	17,328	18,606	15,743	13,338
All other	6,821	6,257	6,425	8,587	10,292	9,130	9,390
Part time (field)	84,979	72,330	487,080	157,513	136,804	146,272	144,712

<sup>1</sup> 48-hour workweek for full-time field employees for 1930, 44 for 1935, and 40 beginning 1940.<sup>2</sup> As of final pay period for 1930 to 1950; as of June 30 beginning 1954.<sup>3</sup> Includes regional accounting money order and supply center personnel.<sup>4</sup> Law enacted granting annual and sick leave with pay to substitutes.Source: Post Office Department; *Annual Report of the Postmaster General*.

No. 630.—POSTAL REVENUES AND EXPENDITURES, BY CLASS OF MAIL AND TYPE OF SERVICE: 1954 AND 1955

[In thousands of dollars. For years ending June 30]

MAIL AND SERVICE	1954			1955		
	Revenues	Apportioned expenditures	Excess of revenues (+) or expenditures (-)	Revenues <sup>1</sup>	Apportioned expenditures	Excess of revenues (+) or expenditures (-)
All operations.....	2,277,767	2,676,914	-399,147	2,375,791	2,738,464	-362,674
Total postal operations.....	2,268,517	2,667,663	-399,147	2,349,477	2,712,150	-362,674
Nonpostal reimbursements and money order items.....	9,250	9,250		96,314	96,314	
Revenue producing mails and services.....	2,240,096	2,591,384	-351,288	2,337,177	2,673,468	-336,291
1st class <sup>2</sup> .....	908,398	845,070	+63,328	967,842	905,517	+62,325
Domestic air mail <sup>3</sup> .....	133,449	129,851	+3,598	142,571	122,304	+20,267
2d class paid.....	61,655	280,009	-218,354	65,693	285,270	-219,587
3d class.....	252,351	399,538	-147,187	268,309	441,514	-173,205
4th class.....	587,417	610,708	-23,291	596,230	593,125	+3,105
Publications.....	4,143	5,194	-1,051	4,901	6,303	-1,403
International mail.....	81,462	86,739	-5,277	82,830	75,800	+6,940
Registry, paid.....	36,141	41,201	-5,060	35,434	44,154	-8,720
Certified mail <sup>4</sup> .....				293	280	+13
Insurance.....	23,382	24,947	-1,565	23,840	24,641	-801
Collect-on-delivery.....	18,357	23,472	-5,115	16,802	24,252	-7,451
Special delivery.....	27,626	34,017	-7,291	27,218	37,573	-10,355
Money order.....	69,419	92,461	-23,042	65,649	95,792	-30,143
Postal savings.....	15,113	7,829	+7,284	17,574	7,842	+9,732
Unassignable.....	21,183	9,448	+11,735	21,992	9,000	+12,092
Nonrevenue producing services.....	35,065	70,499	-35,434	37,031	50,935	-13,954
Free-in-county (2d class).....		13,894	-13,894		13,385	-13,385
Penalty.....	33,887	44,116	-10,229	35,038	33,410	+1,628
Franked.....	1,178	1,727	-549	1,903	1,582	+411
Free for blind.....		694	-694		769	-769
Registry, free.....		10,068	-10,068		1,839	-1,839
Nonpostal services.....	2,606	15,031	-12,425	1,583	14,012	-12,420
Alien address reporting.....	179	179		163	163	
United States savings bonds and stamps.....	1,020	3,318	-1,308	685	968	-283
Civil service.....		1,979	-1,979		2,464	-2,464
Documentary stamps.....		223	-223		249	-249
Migratory bird stamps.....	154	138	+16	162	171	-9
Custodial services—public buildings.....	349	9,073	-8,724	341	9,649	-9,308
FCC—Health service.....	4	4		2	2	
Official-mail-messenger service.....		117	-117		142	-142
Department of Commerce, Census Bureau.....				98	98	
Miscellaneous items, other agencies.....				137	111	+26

<sup>1</sup> Net revenues.

<sup>2</sup> Includes free letter mail from members of Armed Forces.

<sup>3</sup> Includes paid air mail to and from Armed Forces overseas, and outlying possessions of United States; also free air mail from members of Armed Forces.

<sup>4</sup> Service inaugurated June 6, 1955.

Source: Post Office Department; *Cost Ascertainment Report*.

No. 631.—PER CAPITA POSTAGE PAID AND PIECES OF MAIL RECEIVED: 1942 TO 1955

[For years ending June 30]

ITEM	1942	1945	1947	1948	1949	1950	1951	1952	1953	1954	1955
Postage paid per capita.....dollars..	5.57	7.83	7.33	7.85	8.79	9.36	9.78	10.51	11.21	12.12	12.28
Domestic mail received per capita.....pieces..											
Letters (1st class and air mail) do.....	211	257	246	263	280	284	292	303	305	310	324
2d class.....do.....	130	166	149	156	162	167	173	177	180	177	184
3d class.....do.....	34	42	43	43	47	41	42	44	42	40	41
Parcels.....do.....	41	41	47	56	63	68	69	74	75	86	92

Source: Post Office Department; *Cost Ascertainment Report*.

## No. 632.—POST OFFICE OPERATIONS—VOLUME OF MAIL, BY CLASSES, AND SPECIAL SERVICE TRANSACTIONS: 1949 TO 1955

[For years ending June 30]

CLASS OF MAIL OR SERVICE	1949	1950	1951	1952	1953	1954	1955
<b>PIECES OF MAIL (1,000)</b>							
All mail	43,555,108	45,063,737	46,908,410	49,905,875	50,948,156	52,213,170	55,233,564
<b>Domestic mail</b>							
1st class	43,139,152	44,646,425	46,479,529	49,456,660	50,462,659	51,710,836	54,721,728
Air mail	23,205,535	24,500,072	25,577,710	26,502,325	27,256,993	27,085,303	28,713,340
2d class	856,419	853,183	1,094,335	1,390,730	1,429,680	1,470,337	1,467,482
3d class	6,987,259	6,264,838	6,519,623	6,956,420	6,762,475	6,483,489	6,789,803
4th class	9,389,231	10,342,921	10,533,785	11,630,346	12,003,642	13,865,589	15,049,722
Publications <sup>1</sup>	1,209,417	1,179,415	1,235,450	1,256,866	1,244,505	1,195,055	1,135,550
Penalty	1,468,972	1,471,750	1,479,173	1,681,355	1,657,701	1,492,296	1,479,676
Franked	20,046	31,866	36,903	36,019	48,868	46,074	47,668
Free for blind	2,273	2,381	2,550	2,594	2,650	2,756	3,226
<b>International mail</b>							
Regular mail <sup>2</sup>	415,955	417,312	428,881	449,215	485,497	502,334	511,835
Parcel post	191,171	189,821	198,580	198,952	215,816	224,473	234,760
U. S. A. gift parcels	11,791	9,459	12,375	12,551	12,472	10,323	8,493
Publishers' 2d class	14,936	11,529	3,180	1,742	1,146		
Air mail <sup>2</sup>	77,895	84,582	87,325	95,748	107,028	113,434	110,253
Air parcel post	119,692	121,226	126,754	136,434	148,170	153,231	157,496
<b>WEIGHT OF MAIL (1,000 pounds)</b>							
All mail	11,625,209	11,521,370	11,909,135	11,500,516	11,204,044	11,003,639	10,844,369
<b>Domestic mail</b>							
1st class	11,205,220	11,176,403	11,644,019	11,248,045	10,961,538	10,803,169	10,667,659
Air mail	608,193	620,265	666,916	701,685	748,992	749,053	804,419
2d class	45,347	53,149	63,443	78,272	76,942	81,689	84,775
3d class	2,240,091	2,286,749	2,354,993	2,412,658	2,496,590	2,504,459	2,582,348
4th class	617,935	646,198	662,959	711,546	726,981	811,347	892,015
Publications <sup>1</sup>	7,500,578	7,370,096	7,696,475	7,114,620	6,652,371	6,402,686	6,034,555
Penalty	177,530	183,250	183,249	211,100	204,632	180,342	201,049
Franked	4,734	4,723	3,862	3,988	5,950	4,843	4,522
Free for blind	10,814	11,973	12,123	14,177	18,504	19,800	19,504
<b>International mail</b>							
Regular mail <sup>2</sup>	419,988	344,967	265,116	252,470	242,505	200,470	176,710
Parcel post	27,965	24,955	27,745	25,631	29,588	33,930	33,319
U. S. A. gift parcels	351,183	{ 94,768	138,528	138,542	130,923	100,610	81,972
Publishers' 2d class	35,836	176,647	82,489	31,144	18,569		
Air mail <sup>2</sup>	4,242	43,167	40,711	51,042	56,822	59,067	54,281
Air parcel post	762	4,280	4,498	4,713	5,210	5,388	5,677
1,150	1,144	1,398	1,398	1,398	1,475	1,460	
<b>SPECIAL SERVICE TRANSACTIONS (1,000)</b>							
Total	939,025	909,137	913,292	883,438	858,442	823,250	803,291
Registry, paid	73,977	72,392	75,539	72,425	71,359	68,464	69,943
Registry, free	17,541	18,129	18,585	18,091	18,839	16,729	16,023
Insurance	204,597	199,157	199,389	201,990	197,719	193,631	189,087
Collect on delivery	73,841	63,111	60,116	55,836	49,303	43,011	38,909
Certified mail <sup>3</sup>							1,528
Special delivery	120,176	115,044	124,594	122,634	114,158	106,285	105,289
Special handling	8,923	7,729	9,385	9,620	11,248	11,325	10,029
Miscellaneous international	3,849	3,979	3,751	4,058	5,087	4,317	5,370
Money orders	313,582	303,729	322,934	376,542	370,291	361,338	350,837
Postal notes	90,328	96,330	73,447				
Postal savings certificates	32,212	29,638	25,552	22,351	20,438	18,150	16,275

<sup>1</sup> Included with 3d and 4th class prior to 1953.<sup>2</sup> Comprises letters, cards, and other articles.<sup>3</sup> Service inaugurated June 6, 1955.Source: Post Office Department; *Cost Ascertainment Report*.

No. 633.—POSTAL SERVICE OPERATION—NUMBER OF OFFICES, 1954 AND 1955, AND GROSS RECEIPTS, 1925 TO 1954, BY STATES AND OTHER AREAS

[For years ending June 30]

DIVISION, STATE, OR OTHER AREA	NUMBER OF POST OFFICES		GROSS POSTAL RECEIPTS (\$1,000) 1						
	1954	1955	1925	1930	1935	1940	1945	1950	1954
<b>Grand total</b>	<b>39,405</b>	<b>38,816</b>	<b>584,755</b>	<b>686,351</b>	<b>695,661</b>	<b>729,780</b>	<b>1,243,674</b>	<b>1,603,628</b>	<b>2,219,315</b>
<b>Continental U. S.</b>	<b>38,934</b>	<b>37,854</b>	<b>583,427</b>	<b>684,610</b>	<b>591,800</b>	<b>726,172</b>	<b>1,216,094</b>	<b>1,593,127</b>	<b>2,203,998</b>
New England	2,223	2,203	43,498	51,375	46,111	54,022	77,245	112,173	149,370
Maine	657	644	3,946	3,912	3,588	3,925	5,834	6,765	8,900
New Hampshire	325	321	2,035	2,286	2,216	2,718	3,815	5,203	7,656
Vermont	335	333	1,540	1,703	1,659	1,846	2,406	3,230	4,331
Massachusetts	560	558	25,064	29,627	25,890	29,796	42,120	63,032	81,922
Rhode Island	69	69	2,702	3,297	3,018	3,614	5,970	7,961	10,689
Connecticut	277	278	8,211	10,550	9,740	12,224	17,100	26,972	35,873
Middle Atlantic	4,765	4,685	161,532	194,927	164,613	195,685	324,915	437,889	533,442
New York	1,838	1,827	102,514	125,072	102,748	120,888	210,835	275,433	362,063
New Jersey	608	595	14,655	19,768	18,553	23,207	35,122	53,059	73,435
Pennsylvania	2,319	2,263	44,363	50,087	43,312	51,590	78,958	109,397	147,944
East North Central	5,457	5,361	151,924	175,748	143,661	180,346	259,051	372,050	503,599
Ohio	1,296	1,271	35,417	42,088	34,046	41,668	62,071	86,039	119,163
Indiana	874	854	13,774	15,613	13,388	16,810	26,745	35,755	49,229
Illinois	1,412	1,401	70,753	78,757	62,916	79,257	104,724	157,303	207,646
Michigan	986	970	18,978	24,133	20,048	26,870	42,109	55,655	81,162
Wisconsin	889	865	13,002	15,157	13,265	15,740	23,402	34,318	46,399
West North Central	5,988	5,880	73,365	80,641	66,926	76,171	111,234	155,302	218,580
Minnesota	987	970	15,836	17,614	15,089	17,600	24,886	35,556	52,243
Iowa	1,079	1,069	11,720	13,504	10,932	12,912	18,631	25,354	33,149
Missouri	1,329	1,292	27,230	28,988	22,748	25,806	37,517	56,684	86,495
North Dakota	580	567	2,360	2,721	2,562	2,747	3,583	4,579	5,111
South Dakota	512	501	2,539	2,750	2,433	2,614	3,686	4,663	5,502
Nebraska	648	640	6,663	7,279	6,217	6,925	10,397	13,704	17,234
Kansas	853	841	7,017	7,755	6,945	7,569	12,638	14,763	18,846
South Atlantic	6,449	6,221	46,072	52,293	51,213	65,939	124,543	150,838	222,054
Delaware	64	63	999	1,283	1,251	1,759	2,574	3,727	4,998
Maryland	530	527	7,101	8,519	7,706	9,435	15,328	19,877	25,406
Dist. of Columbia	1	1	4,771	6,047	6,307	8,242	18,637	19,781	26,257
Virginia	1,559	1,490	7,236	7,985	7,688	9,617	18,013	21,198	34,438
West Virginia	1,421	1,389	4,395	4,611	4,274	5,142	8,725	9,349	12,810
North Carolina	969	920	5,814	6,830	7,475	9,407	19,175	23,247	31,159
South Carolina	459	453	2,530	2,174	2,037	2,832	4,897	6,656	11,409
Georgia	824	796	7,734	9,220	8,452	10,630	18,631	23,812	39,069
Florida	622	582	5,492	5,674	6,023	8,875	18,561	23,242	36,507
East South Central	4,336	4,163	20,576	23,736	21,330	26,881	49,905	58,411	83,574
Kentucky	2,040	1,966	6,283	6,827	6,161	7,304	12,472	14,804	21,510
Tennessee	752	726	7,107	8,546	7,676	9,796	17,528	22,629	31,803
Alabama	874	834	4,385	5,108	4,524	5,961	11,991	13,118	18,557
Mississippi	670	637	2,801	3,255	2,969	3,820	7,914	7,860	11,644
West South Central	4,356	4,126	30,646	37,240	33,206	42,606	81,886	98,003	139,934
Arkansas	977	913	3,585	3,828	3,265	4,115	7,995	8,441	10,176
Louisiana	677	627	5,055	5,486	5,017	6,684	13,773	14,781	19,588
Oklahoma	827	777	5,859	7,272	6,217	7,375	13,032	14,720	19,277
Texas	1,875	1,800	10,117	20,654	18,707	24,433	47,080	60,061	90,894
Mountain	2,769	2,655	15,004	17,276	15,914	19,778	32,171	41,878	61,579
Montana	503	490	2,180	2,446	2,422	2,813	3,682	4,856	5,995
Idaho	375	361	1,324	1,513	1,488	1,878	2,815	3,597	5,442
Wyoming	249	240	953	993	992	1,189	1,811	2,302	3,359
Colorado	524	499	5,878	6,819	5,929	7,158	10,701	14,801	21,406
New Mexico	451	439	900	1,080	1,162	1,631	2,997	3,881	6,241
Arizona	266	260	1,137	1,532	1,456	1,990	4,228	5,460	8,684
Utah	280	275	2,179	2,347	1,928	2,434	4,591	5,487	7,965
Nevada	121	121	453	537	537	686	1,345	1,495	2,485
Pacific	2,591	2,530	40,812	51,378	48,823	64,743	155,143	166,583	241,865
Washington	640	621	7,494	8,719	8,026	9,964	21,402	23,370	31,420
Oregon	550	532	4,809	5,436	5,004	6,719	11,152	15,591	21,617
California	1,401	1,377	28,509	37,223	35,793	48,060	122,589	127,622	188,828
Alaska	248	239	71	104	98	170	413	962	2,610
Hawaii	101	101	611	774	834	1,480	22,726	3,955	5,676
Puerto Rico	107	107	522	527	568	809	2,489	2,415	4,749
Virgin Islands	5	5	11	15	17	36	48	75	145
Other areas <sup>2</sup>	10	10	4	3	3	13	(3)	201	333
Philatelic agency			100	317	2,340	1,101	1,903	2,892	1,803

<sup>1</sup> Excludes revenues from money-order business, postal savings, and certain miscellaneous items.

<sup>2</sup> Comprises Canton Island, Guam, Samoa (Tutuila), Wake, Caroline, Mariana and Marshall Islands.

<sup>3</sup> Less than \$500.

No. 634.—NEWSPAPERS AND PERIODICALS—NUMBER AND CIRCULATION, BY FREQUENCY OF ISSUE, AND RECEIPTS: 1929 TO 1947

[Circulation and money figures in thousands]

FREQUENCY OF ISSUE AND RECEIPTS	1929	1931	1933	1935	1937	1939	1947
<b>NEWSPAPERS</b>							
Total number	10,176	9,299	6,884	8,266	8,826	9,173	10,282
Aggregate circulation per issue <sup>1</sup>	91,778	86,457	76,299	87,096	95,296	96,476	119,567
Daily (except Sunday):							
Morning:							
Number	459	455	432	464	505	473	400
Circulation	15,742	15,480	14,782	15,984	17,311	17,152	21,796
Evening:							
Number	1,627	1,589	1,471	1,573	1,560	1,567	1,454
Circulation	26,274	25,813	22,849	24,887	26,034	25,814	31,490
Sunday:							
Number	578	555	489	523	528	542	416
Circulation	29,012	27,453	25,454	29,196	32,713	33,007	42,736
Weekly:							
Number	7,075	6,313	4,218	5,337	5,839	6,212	7,705
Circulation	18,884	16,173	12,048	15,185	17,287	18,295	21,408
Semiweekly:							
Number	381	339	240	332	348	343	230
Circulation	1,580	1,353	1,026	1,724	1,720	1,990	926
Triweekly:							
Number	56	48	34	37	46	36	21
Circulation	287	184	140	121	231	219	151
Other:							
Number							56
Circulation							1,060
Receipts, total	\$1,073,119	\$886,523	\$667,820	\$760,247	\$861,689	\$845,687	\$1,792,338
Subscription and sales	275,781	261,569	239,147	260,224	287,509	306,192	500,925
Advertising	797,338	624,954	428,673	500,023	574,180	539,495	1,192,413
<b>PERIODICALS</b>							
Total number	5,157	4,887	3,459	4,019	4,202	4,985	4,610
Aggregate circulation <sup>1</sup>	202,022	183,527	174,759	178,621	224,275	239,693	384,628
Daily:							
Number	207	204	177	106	163	220	112
Circulation	932	831	704	682	791	1,079	842
Triweekly:							
Number	8	9	6	7	8	12	5
Circulation	25	31	25	22	33	27	5
Semiweekly:							
Number	27	38	30	27	45	50	21
Circulation	1,402	1,284	1,811	2,129	2,556	2,995	182
Weekly:							
Number	1,158	1,066	878	966	954	1,109	802
Circulation	34,495	30,782	39,365	42,648	56,115	55,825	69,303
Semimonthly:							
Number	224	205	145	171	179	193	233
Circulation	9,168	6,375	4,503	5,508	7,548	8,135	13,832
Monthly:							
Number	2,799	2,552	1,664	2,009	2,063	2,323	2,253
Circulation	133,048	122,671	103,193	102,194	124,521	134,766	194,824
Quarterly:							
Number	562	629	462	510	547	698	647
Circulation	20,605	19,576	23,238	23,277	25,808	26,238	45,535
Other:							
Number	172	184	97	133	243	380	447
Circulation	2,346	1,978	1,742	2,161	6,903	9,726	60,015
Receipts, total	\$507,445	\$407,254	\$269,294	\$329,564	\$407,835	\$409,027	\$1,045,523
Subscription and sales	184,545	163,698	128,292	143,466	171,961	184,572	419,782
Advertising	322,900	243,556	141,002	186,098	235,874	224,455	625,741

<sup>1</sup> Totals of average circulation per issue.

Source: Department of Commerce, Bureau of the Census; 1947 Census of Manufactures report.

No. 635.—DAILY AND SUNDAY NEWSPAPERS—NUMBER AND CIRCULATION, 1946 TO 1955, AND BY STATES, 1955

[Circulation figures in thousands. As of October 1. For English language newspapers only.]

YEAR AND STATE	DAILY NEWSPAPERS						SUNDAY NEWS-PAPERS	
	Total		Morning		Evening		Number	Net paid circulation
	Number	Net paid circulation	Number	Net paid circulation	Number	Net paid circulation		
1946	1,763	50,928	334	20,546	1,429	30,382	497	43,665
1947	1,769	51,673	328	20,762	1,441	30,911	511	45,151
1948	1,781	52,285	328	21,082	1,453	31,203	530	46,308
1949	1,780	52,846	320	21,005	1,451	31,841	546	46,390
1950	1,772	53,829	322	21,266	1,450	32,563	549	46,582
1951	1,773	54,018	319	21,223	1,454	32,795	543	46,279
1952	1,786	53,951	327	21,160	1,459	32,791	545	46,210
1953	1,785	54,472	327	21,412	1,458	33,060	544	45,949
1954	1,765	55,072	317	21,705	1,448	33,307	544	46,176
<b>1955</b>								
Total <sup>1</sup>	<b>2 1,760</b>	<b>56,147</b>	316	22,183	1,454	33,964	541	46,448
Alabama	17	602	3	185	14	417	13	527
Arizona	18	243	4	123	9	119	5	176
Arkansas	2 35	357	8	148	28	209	8	235
California	124	4,219	19	1,581	105	2,638	22	3,276
Colorado	25	573	3	188	22	385	9	612
Connecticut	25	722	6	193	19	529	6	452
Delaware	3	105	1	28	2	77		
District of Columbia	3	799	1	382	2	417	2	601
Florida	40	1,212	11	706	29	506	26	1,070
Georgia	29	839	5	346	24	493	10	708
Idaho	2 14	136	4	62	11	74	5	99
Illinois	2 85	3,867	9	1,499	77	2,368	18	3,220
Indiana	87	1,576	11	431	76	1,145	18	1,009
Iowa	44	927	4	303	40	624	8	809
Kansas	2 53	699	4	193	50	506	14	491
Kentucky	2 30	609	7	296	24	403	13	522
Louisiana	19	713	4	308	15	404	9	617
Maine	10	264	5	183	5	71	2	167
Maryland	12	739	4	220	8	519	3	669
Massachusetts	52	2,594	7	1,081	45	1,514	11	1,703
Michigan	54	2,312	2	494	52	1,818	12	2,010
Minnesota	30	1,000	4	352	26	648	5	807
Mississippi	21	265	5	67	16	190	10	174
Missouri	2 58	1,791	10	740	50	1,051	13	1,377
Montana	18	163	4	59	14	74	10	146
Nebraska	20	461	3	170	17	201	5	343
Nevada	8	73	2	27	6	47	3	56
New Hampshire	2 9	113	1	23	9	90	1	36
New Jersey	26	1,305	6	376	20	929	8	782
New Mexico	19	153	1	38	18	114	14	122
New York	94	8,505	24	4,807	70	3,698	18	9,270
North Carolina	45	982	8	489	37	493	15	650
North Dakota	11	149	2	52	9	117	2	83
Ohio	97	3,337	8	785	89	2,552	18	2,118
Oklahoma	53	715	9	304	44	411	40	660
Oregon	22	605	4	261	18	345	8	597
Pennsylvania	2 129	4,140	28	1,377	103	2,763	14	3,281
Rhode Island	7	202	1	53	6	238	2	159
South Carolina	18	445	8	308	10	137	7	332
South Dakota	12	159	1	2	11	157	4	110
Tennessee	30	1,006	8	483	22	523	12	822
Texas	112	2,739	23	1,135	89	1,603	76	2,308
Utah	5	229	1	95	4	134	4	225
Vermont	10	94	2	50	8	43	1	12
Virginia	32	783	10	371	22	413	12	544
Washington	27	910	6	315	21	596	10	831
West Virginia	30	499	9	238	21	262	9	393
Wisconsin	39	1,074	3	244	36	829	6	856
Wyoming	10	67	6	34	4	33	3	32

<sup>1</sup> Adjusted to allow for duplication of Texarkana, Ark.-Tex. and Bristol, Tenn.-Va., in individual State tabulations (circulations divided between States), and Covington, Ky., papers also included in Ohio.

<sup>2</sup> Adjusted to account for all-day papers listed in morning and evening figures (circulations divided between them).

No. 636.—Books—New Books and New Editions Published, by Subject: 1950 to 1955

[Data based on reports from publishers, numbering 800 or more. To assure as complete a coverage as possible, reports are checked against book reviews and notices and against card index of the Library of Congress. New books are new titles; new editions are revisions of trade or textbooks, and cheaper editions of original trade books. Data exclude pamphlets, theses, reports, and reprints (containing no change whatsoever from original publication)]

SUBJECT	1950			1953			1954			1955		
	Total	New books	New editions	Total	New books	New editions	Total	New books	New editions	Total	New books	New editions
<b>Total</b> .....	<b>11,022</b>	<b>8,634</b>	<b>2,388</b>	<b>12,050</b>	<b>9,724</b>	<b>2,326</b>	<b>11,901</b>	<b>9,690</b>	<b>2,211</b>	<b>12,589</b>	<b>10,226</b>	<b>2,363</b>
Agriculture, gardening.....	152	111	41	162	126	36	148	111	37	168	125	43
Biography.....	603	538	65	776	710	66	743	687	56	833	735	98
Business.....	250	190	60	302	225	77	260	196	64	312	228	84
Education.....	256	209	47	230	201	29	260	223	37	274	231	43
Fiction.....	1,907	1,211	696	2,215	1,495	720	2,098	1,512	586	2,073	1,469	614
Fine arts.....	357	317	40	294	285	29	314	285	29	347	305	42
Games, sports.....	188	153	35	222	194	28	231	201	30	200	175	25
General literature and criticism.....	591	510	81	557	485	72	558	493	65	660	529	131
Geography, travel.....	288	221	67	351	280	71	311	230	81	366	290	76
History.....	516	456	60	590	495	95	605	529	76	665	572	93
Home economics.....	193	150	43	241	197	44	239	192	47	255	205	50
Juvenile.....	1,059	907	152	1,394	1,284	130	1,342	1,193	149	1,485	1,372	113
Law.....	298	228	70	262	196	66	292	226	66	305	240	65
Medicine, hygiene.....	443	312	131	485	328	157	492	345	147	534	407	127
Music.....	113	88	25	73	68	15	79	69	10	103	85	18
Philology.....	148	102	46	183	140	43	181	126	55	168	118	50
Philosophy, ethics.....	340	278	62	332	285	47	315	260	55	314	244	70
Poetry, drama.....	531	453	78	475	412	63	468	389	79	493	423	70
Religion.....	727	626	101	814	725	89	875	774	101	849	747	102
Science.....	705	499	206	695	522	173	707	522	185	801	623	178
Sociology, economics.....	515	447	68	537	457	70	517	463	54	520	443	77
Technical and military.....	497	366	131	411	294	117	444	325	119	477	355	122
Miscellaneous.....	345	262	83	449	360	89	422	339	83	387	315	72

Source: R. R. Bowker Co., New York, N. Y. Monthly data published in *Publishers' Weekly*.

No. 637.—REGISTRATION OF COPYRIGHTS, BY SUBJECT MATTER: 1940 TO 1955

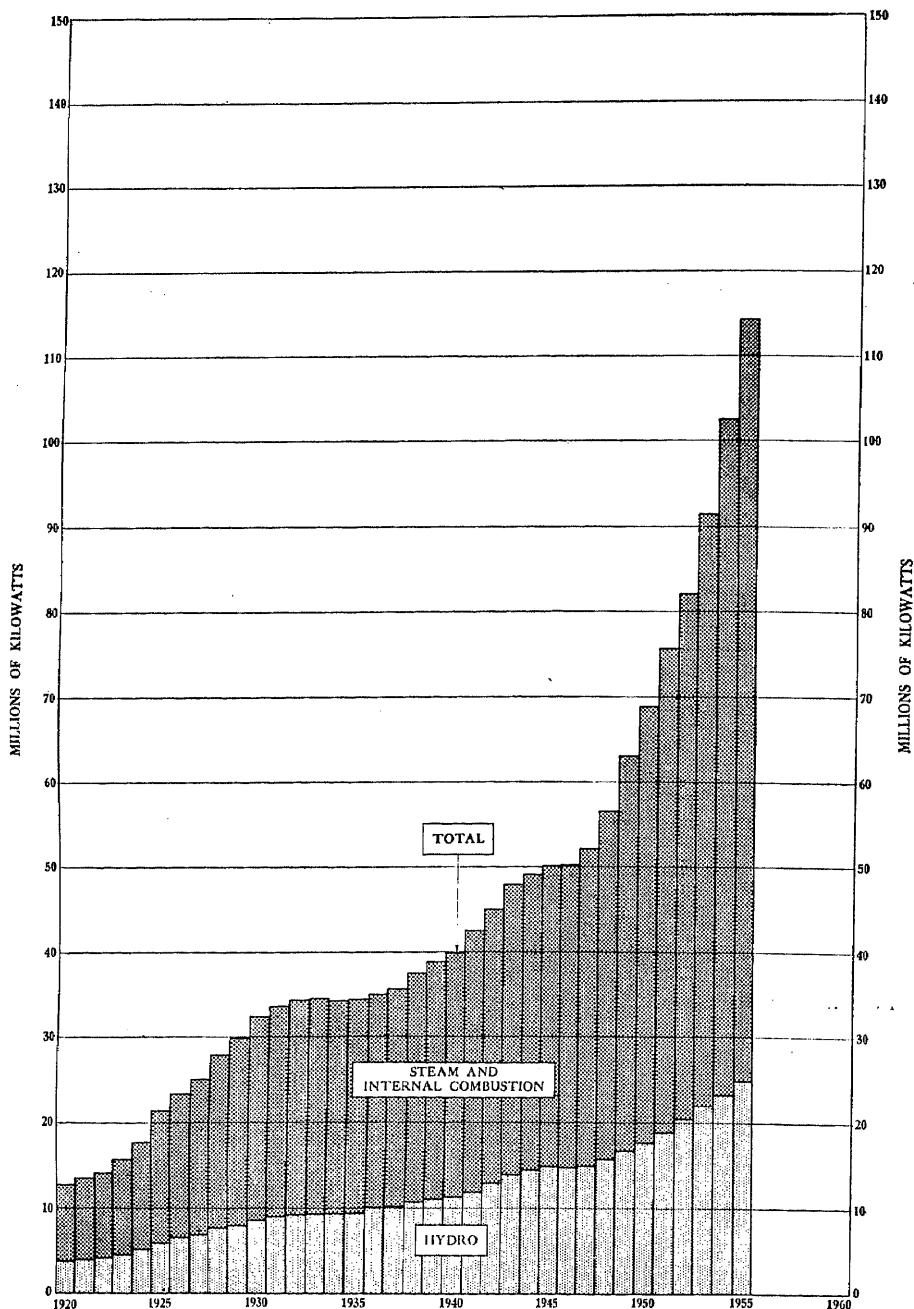
[For years ending June 30. For information on patents, see table 608. See also *Historical Statistics*, series P 170-175, for data on total registrations and on the registration of books, musical compositions, and commercial prints and labels]

SUBJECT MATTER OF COPYRIGHT	1940	1945	1950	1953	1954	1955
<b>Total</b> .....	<b>176,997</b>	<b>178,848</b>	<b>210,564</b>	<b>218,506</b>	<b>222,665</b>	<b>224,732</b>
Books.....						
Printed in the United States.....	64,051	40,544	54,894	52,347	55,057	58,160
Books proper.....	60,589	39,754	50,144	46,919	49,902	52,588
Pamphlets, leaflets, etc.....	11,976	6,962	11,323	43,631	46,608	49,142
Contributions to newspapers and periodicals.....	34,687	27,936	34,383	3,288	3,294	3,746
Printed abroad in a foreign language.....	13,926	4,556	4,438	3,875	3,697	3,694
English books registered for ad interim copyright.....	2,504	111	3,710	1,553	1,458	1,578
Periodicals (numbers).....	40,173	45,763	55,436	59,371	60,667	59,448
Lectures, sermons, addresses.....	1,276	1,177	1,007	862	769	813
Dramatic or dramatico-musical compositions.....	6,450	4,714	4,427	3,884	3,527	3,493
Musical compositions.....	37,075	57,835	52,309	59,302	58,213	57,527
Maps.....	1,622	857	1,638	2,541	2,390	2,013
Works of art, models, or designs.....	3,081	1,821	4,013	3,029	3,170	3,456
Reproductions of works of art.....	445	186	326	579	572	900
Drawings or plastic works of a scientific or technical character.....	2,817	1,554	3,116	958	1,300	1,350
Photographs.....	2,500	1,258	1,143	1,206	1,049	1,105
Commercial prints and labels.....						
Prints and pictorial illustrations.....	4,609	2,634	4,309	12,320	12,025	10,784
Motion picture photoplays.....	800	615	782	907	4,103	3,793
Motion pictures not photoplays.....	811	1,120	1,113	1,268	1,386	1,434
Renewals of all classes.....	10,207	11,367	14,531	17,101	18,508	19,519

Source: The Library of Congress; *Annual Report*.

FIG. XXXIII.—INSTALLED CAPACITY OF ELECTRIC UTILITY GENERATING PLANTS:  
1920 TO 1955

[See table 640]



Source: Federal Power Commission.

## Section 19

### Power

This section presents statistics relating to the supply, production, and distribution of power and energy. The principal sources of these data are the Federal Power Commission, and the Bureau of Mines of the Department of the Interior.

The Federal Power Commission publishes annually *Production of Electric Energy and Capacity of Generating Plants*, which presents data on the production of electric energy classified by type of prime mover and by quantities of basic fuels used (coal, oil, natural gas, etc.), and on the capacity of all generating plants classified by type of prime mover. This report also includes statistics on water as an actual and potential source of power. The Commission's data cover both generation for public use by electric utilities and for use by the producer where generated by non-utility establishments. Data on sales, revenues, and numbers of customers by classes of service, on rates and typical bills, and related matters are also issued at regular intervals by the Commission. Monthly statistics on production, fuels used in production, sales by classes of service, salaries and wages, taxes, and other costs of production appear in the Commission's series entitled *Electric Power Statistics*.

The Bureau of Mines' annual *Minerals Yearbook* presents statistics on coal, oil, and natural gas production and utilization. Other important sources of data include the American Gas Association, which in its monthly bulletins and annual statistical issues (such as *Gas Facts*) presents data on natural gas utilization and the production of manufactured gas from coal, oil, and similar products; and the *Statistical Bulletin* of the Edison Electric Institute, issued monthly and annually, which presents data on the distribution of electric energy by public utilities.

Related materials are presented in other sections of this volume. Thus, statistics on production, value, and consumption of coal, oil, and natural gas are presented in section 28, Mining and Mineral Products; statistics compiled by the Bureau of the Census in its Censuses of Manufactures and Mineral Industries on the use of power by manufacturing, extracting, and related industries are also presented in section 28, and in section 30, Manufactures.

The Federal Power Commission has uniform systems of accounts for public utilities subject to its jurisdiction and its licensees. The Commission compiles data from the following periodic reports: Annual reports of electric utilities containing information as to assets, liabilities, revenues, generating capacity, and number of consumers; power system reports of electric utility systems presenting generating capacity, transmission facilities, and loads and load characteristics; monthly and annual reports containing such information as production of electricity for public use, fuel consumed, and stocks of fuel on hand; and reports from electric utilities and industrial corporations with respect to their electric power requirements and supply.

Data in this section relate to continental United States except as indicated.

**Historical statistics.**—Tabular headnotes (as "See also *Historical Statistics*, series G 159-170") provide cross-references, where applicable, to *Historical Statistics of the United States, 1789-1945*. See preface.

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Note.—This section presents data for the most recent year or period available on April 25, 1956, when the material was organized and sent to the printer. In some instances, more recent data were added later.

No. 638.—ENERGY FROM MINERAL FUELS AND WATER POWER—ANNUAL SUPPLY, 1900 TO 1954, AND CONSUMPTION, 1920 TO 1954, BY SOURCE

[In trillions of British thermal units. Unit heat values employed are: Anthracite, 12,700 B. t. u. per pound; bituminous coal and lignite, 13,100 B. t. u. per pound; petroleum, 5,800,000 B. t. u. per barrel; natural gas, 1,075 B. t. u. per cubic foot. Water power includes installations owned by manufacturing plants and mines, as well as Government and privately owned public utilities. Fuel equivalent of water power calculated from kilowatt-hours of power produced wherever available, as is true of all public-utility plants since 1919. Otherwise, fuel equivalent calculated from reported horsepower of installed water wheels, assuming capacity factor of 20 percent for factories and mines and of 40 percent for public utilities. See also *Historical Statistics*, series G 159-170.]

YEAR	Total	COAL			Natural gas <sup>2</sup>	PERCENT				
		Water power	Anthra-cite	Bitu-minous and lignite		Coal		Crude petro-leum <sup>1</sup>	Natural gas <sup>2</sup>	
						Water power	Anthra-cite	Bitu-minous and lignite		
<b>ANNUAL SUPPLY</b>										
1900	7,893	250	1,457	5,563	369	254	3.2	18.4	70.5	
1905	11,772	386	1,973	8,255	781	377	3.3	16.8	70.1	
1910	15,375	639	2,146	10,928	1,215	547	3.5	14.0	71.1	
1915	16,822	659	2,260	11,597	1,630	676	3.9	13.4	60.0	
1920	21,340	738	2,276	14,899	2,569	858	3.5	10.7	69.8	
1925	21,571	668	1,570	13,625	4,430	1,278	3.1	7.3	63.2	
1930	22,060	752	1,762	12,249	5,208	2,039	3.4	8.0	55.5	
1935	19,727	806	1,325	9,756	5,780	2,060	4.1	6.7	49.5	
1940	24,969	880	1,308	12,072	7,849	2,860	3.5	5.2	48.4	
1945	32,123	1,442	1,395	15,134	9,939	4,213	4.5	4.4	47.1	
1946	31,322	1,406	1,537	13,989	10,057	4,333	4.5	4.9	44.7	
1947	35,098	1,426	1,455	16,522	10,771	4,926	4.1	4.1	47.1	
1948	35,890	1,481	1,451	15,707	11,717	5,534	4.1	4.1	43.8	
1949	30,606	1,539	1,058	11,472	10,683	5,827	5.0	3.5	37.5	
1950	34,422	1,573	1,120	13,527	11,449	6,753	4.5	3.3	39.3	
1951	37,678	1,559	1,084	13,982	13,037	8,016	4.1	2.9	37.1	
1952	36,739	1,581	1,031	12,231	13,282	8,614	4.3	2.8	33.3	
1953	36,987	1,522	756	11,981	13,671	9,027	4.1	2.1	32.4	
1954 (prel.)	35,194	1,449	689	10,270	13,433	9,355	4.1	2.0	29.2	
<b>CONSUMPTION</b>										
1920	20,135	738	2,179	13,325	3,027	866	3.7	10.8	66.2	
1925	21,347	668	1,627	13,079	4,641	1,332	3.1	7.6	61.3	
1930	22,742	752	1,718	11,921	6,148	2,203	3.3	7.6	52.4	
1935	19,355	806	1,208	9,336	5,709	2,116	4.2	6.7	48.2	
1940	24,008	880	1,245	11,290	7,662	2,931	3.7	5.2	47.0	
1945	32,005	1,442	3,111	14,661	10,199	4,392	4.5	4.1	45.8	
1946	30,684	1,406	1,369	13,110	10,286	4,513	4.6	4.5	42.7	
1947	33,231	1,426	1,224	14,302	11,131	5,148	4.3	3.7	43.0	
1948	34,301	1,481	1,275	13,622	12,198	5,725	4.3	3.7	39.7	
1949	31,904	1,539	958	11,673	11,709	6,025	4.8	3.0	36.6	
1950	34,421	1,573	1,013	11,900	12,912	7,023	4.6	2.9	34.6	
1951	37,046	1,559	940	12,285	14,255	8,007	4.2	2.5	33.2	
1952	36,677	1,581	897	10,971	14,634	8,594	4.3	2.5	29.9	
1953	37,778	1,522	711	11,182	15,342	9,021	4.0	1.9	29.6	
1954 (prel.)	36,717	1,449	632	9,610	15,406	9,720	3.9	1.7	25.9	

Note. Figures subject to revision. See Bureau of Mines, *Monthly Petroleum Statement* 402.

<sup>1</sup> Includes commingled condensate. <sup>2</sup> Marketed production. Consumption includes dry and liquids.

<sup>3</sup> Includes petroleum products (net imports) beginning 1946.

Source: Department of the Interior, Bureau of Mines; *Mineral Industry Surveys*, *Weekly Coal Report No. 1996*.

No. 639.—PROJECTIONS OF ELECTRIC ENERGY REQUIREMENTS: 1954 TO 1980

[Estimates assume prosperous peacetime conditions; exclude generation by industrial facilities and railways having generating facilities of their own]

YEAR	ENERGY USE			PEAK LOAD		
	Billion kwh	Percent increase from 1954	Percent increase for each time interval	Million kw	Percent increase from 1954	Percent increase for each time interval
1954 <sup>1</sup>	477.9			90.4		
1960	754.5	57.9	57.9	139.4	54.2	54.2
1965	956.5	100.1	26.8	177.0	95.8	27.0
1970	1,173.2	145.5	22.7	216.9	139.9	22.5
1975	1,419.5	197.0	21.0	261.9	189.7	20.7
1980	1,605.5	254.8	19.4	311.7	244.8	19.0

<sup>1</sup> Actual figures compiled from reports of electric utilities.

Source: Federal Power Commission; *Estimated Future Power Requirements of the United States, 1954-1980*, October 1955.

**NO. 640.—PRODUCTION OF ELECTRIC ENERGY AND NUMBER AND CAPACITY OF GENERATING PLANTS, BY CLASS OF OWNERSHIP AND TYPE OF PRIME MOVER: 1925 TO 1955**

For years ending December 31, except installed capacity as of December 31. Industrial series first available for 1939; detail by type of prime mover for 1943. See also *Historical Statistics*, series G 171-190 and G 200-224]

ITEM	1925	1930	1935	1940	1945	1950	1954	1955 (prel.)
<b>Production, total (millions of kilowatt-hours)</b>				179,907	271,255	388,674	544,645	624,902
Electric utilities (for public use), total	61,451	91,112	95,287	141,837	222,486	329,141	471,686	546,404
By class of ownership:								
Privately owned	58,085	86,108	89,330	125,411	180,926	266,860	370,970	420,520
Percent of total	95.5	94.5	93.7	88.4	81.3	81.1	78.6	77.0
Publicly owned	2,756	5,003	5,958	16,426	41,560	62,281	100,716	125,884
Municipal	2,302	3,604	4,229	6,188	9,624	15,244	23,505	(1)
Federal	103	405	555	8,584	28,001	40,388	67,804	(1)
Cooperatives, power districts, State projects	172	518	732	1,175	3,146	5,793	9,407	(1)
Noncentral stations	189	416	442	479	790	857	(2)	(1)
Industrial plants <sup>a</sup>				38,070	48,769	59,533	72,959	78,497
<b>Installed capacity, total (thousands of kilowatts)</b>				50,962	62,868	82,850	118,878	130,413
Electric utilities (for public use), total	21,472	32,384	34,436	39,027	50,111	68,919	102,592	114,371
By class of ownership:								
Privately owned	20,045	30,285	31,820	34,399	40,307	55,176	79,127	86,887
Percent of total	93.4	93.5	92.4	86.2	80.4	80.1	77.1	76.0
Publicly owned	1,427	2,099	2,615	5,828	9,804	13,743	23,465	27,484
Municipal	1,125	1,601	2,002	2,977	3,588	4,970	7,225	(1)
Federal	198	226	300	1,944	5,081	6,921	13,507	(1)
Cooperatives, power districts, State projects	49	154	175	435	891	1,588	2,673	(1)
Noncentral stations	56	118	139	173	245	314	(2)	(1)
Industrial plants <sup>a</sup>				11,035	12,757	13,931	16,286	16,042
<b>TYPE OF PRIME MOVER</b>								
Electric utilities (for public use):								
Number of plants, total <sup>b</sup>	3,738	4,043	4,023	3,918	3,886	3,867	3,627	(1)
Hydro	1,250	1,446	1,476	1,474	1,505	1,458	1,387	(1)
Steam	2,004	1,825	1,424	1,153	1,057	1,051	1,045	(1)
Internal combustion	484	971	1,123	1,291	1,324	1,358	1,195	(1)
Production, total (millions of kilowatt-hours)	61,451	91,112	95,287	141,837	222,486	329,141	471,686	546,404
Hydro	21,798	31,190	38,372	47,321	79,970	95,938	107,069	112,721
Steam	39,367	59,293	56,144	93,002	140,435	229,543	360,834	{ 433,684
Internal combustion	286	620	771	1,514	2,081	3,660	3,783	
Hydro as percent of total	35.5	34.2	40.3	33.4	35.9	29.1	22.7	20.6
Installed capacity, total (thousands of kilowatts)	21,472	32,384	34,436	39,927	50,111	68,910	102,592	114,371
Hydro	5,922	8,585	9,399	11,224	14,012	17,675	23,211	24,938
Steam	15,368	23,386	24,471	27,775	34,113	49,333	77,102	87,082
Internal combustion	182	414	566	928	1,087	1,911	2,279	2,351
Hydro as percent of total	27.6	26.5	27.3	28.1	29.8	25.6	22.6	21.8
Production per kilowatt of installed capacity (kilowatt-hours) <sup>c</sup>	2,862	2,813	2,767	3,552	4,440	4,776	4,598	4,777
Industrial plants: <sup>a</sup>								
Production, total (millions of kilowatt-hours)				38,070	48,769	50,533	72,959	78,497
Hydro					4,777	4,946	4,571	3,253
Fuel					43,992	54,587	68,387	75,244
Hydro as percent of total					9.8	8.3	6.3	4.1
Installed capacity, total (thousands of kilowatts)				11,035	12,757	13,931	16,286	16,042
Hydro					980	1,000	1,027	738
Steam					11,135	12,162	14,148	14,204
Internal combustion					641	770	1,110	1,100
Hydro as percent of total					7.7	7.2	6.3	4.6

<sup>a</sup> Not available.<sup>b</sup> Noncentral stations distributed to other publicly owned classes on the basis of actual ownership.<sup>c</sup> Comprises production and capacity of approximately 2,852 industrial electric power plants of 100 kilowatts and over in 1954, including amounts for stationary electric power plants of railroads and railways.<sup>d</sup> Each prime mover type in combination plants counted separately.<sup>e</sup> Based on capacity in service at end of year.

Source: Federal Power Commission; annual report, *Production of Electric Energy and Capacity of Generating Plants*, and industrial electric power summaries; also related monthly reports for 1955.

**NO. 641.—GENERATING PLANTS—INSTALLED CAPACITY OF ELECTRIC UTILITIES AND INDUSTRIAL PLANTS, BY TYPE OF PRIME MOVER AND CLASS OF OWNERSHIP, BY STATES: 1954**

[In thousands of kilowatts. As of December 31]

DIVISION AND STATE	Total	TYPE OF PRIME MOVER				CLASS OF OWNERSHIP OF ELECTRIC UTILITIES				Indus- trial plants	
		Electric utilities and industrial		Electric utilities		Total	Pri- vately owned	Publicly owned			
		Fuel	Hydro	Fuel	Hydro			Mu- nicipal	Other		
<b>United States</b>	<b>118,878</b>	<b>94,640</b>	<b>24,238</b>	<b>79,382</b>	<b>23,211</b>	<b>102,592</b>	<b>79,127</b>	<b>7,225</b>	<b>16,240</b>	<b>16,286</b>	
New England	6,321	4,987	1,335	4,003	1,050	5,052	4,877	154	22	1,269	
Maine	837	366	471	219	321	540	536	4	(1)	297	
New Hampshire	530	218	312	175	262	437	434	3	-----	93	
Vermont	287	86	200	72	187	259	244	15	-----	28	
Massachusetts	2,750	2,519	230	1,092	180	2,173	2,055	109	9	577	
Rhode Island	416	409	8	349	2	351	345	2	5	65	
Connecticut	1,502	1,388	114	1,195	98	1,293	1,262	23	8	209	
Middle Atlantic	20,381	18,632	1,750	15,650	1,668	17,918	17,079	211	27	3,064	
New York	9,273	7,973	1,300	6,888	1,225	8,113	7,983	112	17	1,161	
New Jersey	3,000	2,991	9	2,518	6	2,524	2,486	36	2	476	
Pennsylvania	8,108	7,668	440	6,244	436	6,681	6,610	63	8	1,427	
East North Central	26,187	25,243	944	21,299	861	22,160	20,268	1,632	260	4,027	
Ohio	7,374	7,359	15	6,121	11	6,131	5,082	435	14	1,243	
Indiana	3,727	3,692	35	3,067	35	3,102	2,793	309	-----	625	
Illinois	6,847	6,795	52	6,134	48	6,182	5,887	274	21	665	
Michigan	5,487	5,065	422	3,925	396	4,320	3,737	501	83	1,166	
Wisconsin	2,752	2,332	420	2,053	371	2,425	2,170	113	141	327	
West North Central	7,925	7,086	839	6,619	797	7,416	5,022	1,293	1,102	509	
Minnesota	1,795	1,610	185	1,498	151	1,650	1,281	296	73	145	
Iowa	1,647	1,507	140	1,386	140	1,520	1,200	227	99	121	
Missouri	1,744	1,550	194	1,424	194	1,618	1,320	211	87	126	
North Dakota	270	270	-----	266	-----	266	187	11	68	3	
South Dakota	383	210	173	207	164	371	165	42	165	12	
Nebraska	759	618	141	606	141	748	748	170	578	11	
Kansas	1,328	1,322	6	1,232	6	1,238	869	337	31	90	
South Atlantic	16,504	13,080	3,423	10,980	2,949	13,929	12,093	624	1,212	2,574	
Delaware	270	270	1	224	-----	224	212	12	-----	47	
Maryland	1,598	1,325	272	1,101	271	1,373	1,334	30	8	225	
Dist. of Columbia	555	552	3	530	3	533	530	-----	3	22	
Virginia	2,372	1,049	423	1,464	400	1,863	1,565	57	242	509	
West Virginia	2,746	2,538	208	2,093	101	2,194	2,193	1	-----	552	
North Carolina	3,409	2,352	1,057	2,123	755	2,877	2,461	112	303	531	
South Carolina	1,812	863	958	641	932	1,573	1,042	5	526	239	
Georgia	1,804	1,315	489	1,097	476	1,372	1,451	16	105	232	
Florida	1,938	1,926	13	1,708	13	1,721	1,304	391	25	217	
East South Central	9,964	6,388	3,576	5,837	3,568	9,405	3,065	161	6,180	558	
Kentucky	2,508	1,967	541	1,927	541	2,468	994	74	1,400	40	
Tennessee	3,557	1,821	1,736	1,642	1,736	3,375	132	20	3,227	179	
Alabama	3,181	1,882	1,299	1,642	1,291	2,934	1,380	1	1,553	247	
Mississippi	717	717	-----	620	-----	626	559	66	-----	91	
West South Central	11,310	10,469	842	7,587	839	8,426	6,682	838	906	2,885	
Arkansas	1,302	986	316	796	313	1,109	804	58	247	193	
Louisiana	2,325	2,325	-----	1,461	-----	1,461	1,290	171	-----	864	
Oklahoma	1,213	1,046	166	991	166	1,158	831	85	242	55	
Texas	6,471	6,112	360	4,339	359	4,699	3,758	523	417	1,773	
Mountain	6,430	2,802	3,629	2,094	3,625	5,719	2,955	213	2,551	712	
Montana	941	90	852	74	851	925	502	-----	428	16	
Idaho	782	46	736	4	735	739	676	13	50	42	
Wyoming	268	160	107	91	107	199	86	2	111	69	
Colorado	956	707	249	598	248	845	531	120	194	110	
New Mexico	510	485	25	440	25	465	362	31	71	45	
Arizona	1,739	759	980	545	980	1,325	408	3	1,115	214	
Utah	592	499	93	330	93	423	374	43	6	169	
Nevada	643	56	587	11	586	597	15	1	581	46	
Pacific	13,855	5,954	7,901	5,313	7,854	13,167	7,086	2,099	3,981	688	
Washington	4,033	480	3,553	227	3,523	3,750	700	907	2,143	283	
Oregon	1,818	364	1,454	204	1,438	1,642	493	52	1,097	176	
California	8,004	5,110	2,804	4,882	2,893	7,774	5,893	1,140	741	220	

1 Less than 500.

Source: Federal Power Commission; based on annual report, *Production of Electric Energy and Capacity of Generating Plants, 1954*.

No. 642.—ELECTRIC ENERGY—PRODUCTION BY ELECTRIC UTILITIES AND INDUSTRIAL PLANTS, BY TYPE OF PRIME MOVER AND CLASS OF OWNERSHIP, BY STATES: 1954

[In millions of kilowatt-hours. For year ending December 31]

DIVISION AND STATE	Total	TYPE OF PRIME MOVER				CLASS OF OWNERSHIP OF ELECTRIC UTILITIES			Industrial plants	
		Electric utilities and industrial		Electric utilities		Total	Privately owned	Publicly owned		
		Fuel	Hydro	Fuel	Hydro					
United States	544,645	433,005	111,640	364,618	107,069	471,686	370,970	23,505	77,211	72,959
New England	23,940	17,701	6,239	15,418	4,950	20,368	19,877	417	74	3,572
Maine	3,388	901	2,488	417	1,720	2,137	2,123	14	(1)	1,252
New Hampshire	2,173	784	1,380	670	1,143	1,813	1,804	9	-----	360
Vermont	1,093	94	999	78	925	1,003	939	64	(1)	90
Massachusetts	9,928	8,926	1,002	7,943	855	8,798	8,494	277	27	1,130
Rhode Island	1,393	1,377	16	1,234	9	1,243	1,210	6	27	149
Connecticut	5,964	5,620	344	5,075	298	5,374	5,306	48	20	591
Middle Atlantic	89,524	79,558	9,967	69,358	9,595	78,953	78,291	553	109	10,571
New York	40,581	32,255	8,328	29,189	7,980	37,169	36,813	270	85	3,412
New Jersey	12,660	12,026	34	10,990	26	11,017	10,903	106	8	1,643
Pennsylvania	36,283	34,077	1,607	29,179	1,589	30,767	30,575	176	16	5,516
East North Central	120,082	115,586	4,496	99,014	4,040	103,054	97,567	4,506	981	17,028
Ohio	33,153	33,122	30	27,786	17	27,803	26,563	1,210	31	5,349
Indiana	17,163	17,064	99	14,159	99	14,258	13,478	785	-----	2,905
Illinois	34,612	34,396	216	31,756	195	31,961	31,139	746	66	2,662
Michigan	24,277	22,370	1,907	17,741	1,795	19,536	17,781	1,450	305	4,741
Wisconsin	10,877	8,634	2,243	7,671	1,034	9,506	8,612	315	579	1,372
West North Central	29,727	26,861	2,866	24,895	2,638	27,533	20,454	3,296	3,782	2,194
Minnesota	6,606	5,575	1,031	5,115	828	5,943	5,050	680	213	663
Iowa	6,405	5,492	913	4,928	913	5,841	5,075	521	245	584
Missouri	6,644	6,512	131	6,055	131	6,186	5,368	537	382	457
North Dakota	850	850	-----	848	-----	848	524	30	294	2
South Dakota	1,018	691	327	646	302	948	557	100	291	70
Nebraska	2,681	2,229	452	2,206	452	2,658	1	377	2,280	23
Kansas	5,524	5,511	13	5,056	13	5,109	3,980	1,051	78	416
South Atlantic	75,149	65,528	9,621	55,239	7,716	62,956	58,060	2,017	2,878	12,193
Delaware	1,080	1,080	-----	922	-----	932	908	23	-----	148
Maryland	7,100	5,879	1,221	4,354	1,219	5,573	5,479	79	15	1,527
Dist. of Columbia	1,740	1,736	4	1,702	4	1,706	1,702	-----	4	34
Virginia	10,410	9,554	856	7,400	774	8,234	7,708	134	391	2,170
West Virginia	15,533	14,614	919	12,534	447	12,981	12,979	1	-----	2,552
North Carolina	14,722	11,313	3,410	10,233	2,178	12,411	11,140	249	1,022	2,311
South Carolina	6,389	4,443	1,946	3,531	1,889	5,420	4,211	8	1,201	970
Georgia	8,139	6,903	1,236	5,775	1,176	6,651	6,730	52	169	1,188
Florida	10,036	10,006	30	8,719	30	8,749	7,202	1,460	77	1,287
East South Central	51,623	38,997	12,627	36,128	12,602	48,730	16,082	341	32,307	2,893
Kentucky	12,702	10,615	2,087	10,479	2,087	12,566	5,556	175	6,836	136
Tennessee	17,979	12,041	5,938	11,257	5,938	17,195	544	49	16,002	784
Alabama	17,232	12,630	4,602	11,228	4,577	15,805	6,935	-----	8,870	1,427
Mississippi	8,710	3,710	-----	3,164	-----	8,164	3,047	118	-----	546
West South Central	56,104	55,013	1,091	36,133	1,084	37,217	32,769	2,603	1,845	18,888
Arkansas	5,923	5,603	319	4,320	312	4,632	4,225	120	287	1,290
Louisiana	12,169	12,169	-----	6,261	-----	6,261	5,864	397	-----	5,908
Oklahoma	5,112	4,940	172	4,713	172	4,885	4,050	189	646	227
Texas	32,901	32,301	600	20,838	509	21,438	18,630	1,897	911	11,463
Mountain	26,042	10,673	15,369	7,665	15,365	23,030	13,179	626	9,226	3,011
Montana	4,305	59	4,246	28	4,246	4,274	2,655	-----	1,620	31
Idaho	4,070	146	3,924	(1)	3,923	3,023	3,604	73	346	147
Wyoming	501	491	310	298	310	608	292	1	315	193
Colorado	3,853	2,859	994	2,510	992	3,502	2,384	320	797	351
New Mexico	1,855	1,844	12	1,597	12	1,609	1,434	82	94	246
Arizona	6,298	2,652	3,645	1,761	3,645	5,406	1,268	7	4,131	891
Utah	2,760	2,487	274	1,455	274	1,729	1,571	141	17	1,032
Nevada	2,088	135	1,963	15	1,963	1,970	71	2	1,906	120
Pacific	72,454	23,090	49,365	20,767	49,079	69,846	34,690	9,147	26,009	2,608
Washington	24,118	900	23,218	2	22,978	22,981	4,275	3,747	14,959	1,137
Oregon	9,667	649	9,018	132	8,971	9,103	1,904	245	6,954	564
California	38,600	21,540	17,129	20,633	17,129	37,762	28,512	5,155	4,096	907

<sup>1</sup> Less than 500,000.

Source: Federal Power Commission; based on annual report, *Production of Electric Energy and Capacity of Generating Plants, 1954*.

No. 643.—ELECTRIC UTILITIES—NUMBER OF ELECTRIC UTILITY SUPPLY SYSTEMS AND GENERATING PLANTS, BY CLASS OF OWNERSHIP: 1922 TO 1954

[As of December 31. Duplications of establishments operating in two or more States have been eliminated. Each type of prime mover in combination generating plants counted separately; nonutility generating plants, approximately 2,852 in 1954, producing primarily for industrial use, are excluded]

ITEM	Total, all classes	Pri- vately owned	PUBLICLY OWNED				
			Total	Munic- ipal	Fed- eral	Public utility districts and State projects	Coop- eratives
1922: Total electric supply systems.....	6,355	3,774	2,581	2,581			
Systems with generating plants.....	4,339	2,650	1,739	1,739			
Number of generating plants.....	5,444	3,615	1,829	1,829			
1932: Total electric supply systems.....	3,429	1,627	1,802	1,799	3		
Systems with generating plants.....	1,788	923	865	862	3		
Number of generating plants.....	4,339	3,244	1,095	1,085	10		
1937: Total electric supply systems.....	3,501	1,407	2,094	1,877	25	11	181
Systems with generating plants.....	1,812	818	994	955	17	6	16
Number of generating plants.....	4,027	2,916	1,111	1,014	27	43	27
1945: Total electric supply systems.....	4,051	1,060	2,991	2,092	74	25	800
Systems with generating plants.....	1,504	492	1,102	990	18	11	83
Number of generating plants.....	3,888	2,400	1,486	1,157	86	101	142
1950: Total electric supply systems.....	4,007	821	3,186	2,077	55	91	963
Systems with generating plants.....	1,495	393	1,102	955	13	42	
Number of generating plants.....	3,867	2,334	1,533	1,136	83	148	166
1952: Total electric supply systems.....	3,937	744	3,103	2,070	55	94	974
Systems with generating plants.....	1,395	353	1,042	607	6	49	80
Number of generating plants.....	3,698	2,212	1,486	1,093	97	146	160
1953: Total electric supply systems.....	3,889	710	3,179	2,063	53	93	970
Systems with generating plants.....	1,368	388	1,030	897	6	47	80
Number of generating plants.....	3,686	2,103	1,493	1,088	107	146	152
1954: Total electric supply systems.....	3,676	592	3,084	1,980	57	92	955
Systems with generating plants.....	1,334	325	1,009	875	7	46	81
Number of generating plants.....	3,627	2,148	1,479	1,072	118	143	146

Source: Federal Power Commission; annual report, *Production of Electric Energy and Capacity of Generating Plants*, and related data.

No. 644.—ELECTRIC LIGHT AND POWER INDUSTRY—ENERGY GENERATED, SALES, REVENUE, AND CUSTOMERS: 1930 TO 1955

[See also *Historical Statistics*, series G 225-233]

CLASS	1930 <sup>1</sup>	1940	1945	1950	1954	1955
Energy generated <sup>2</sup> million kilowatt-hours.....	91,112	141,837	222,486	329,141	471,686	546,404
Sales to ultimate customers.....do.....	74,906	118,643	193,558	280,539	410,904	480,921
Residential or domestic.....do.....	<sup>3</sup> 11,018	23,318	34,184	67,030	108,465	120,524
Rural (distinct rural rates).....do.....	<sup>4</sup> 1,473	1,991	3,668	7,400	10,176	10,751
Commercial and industrial:						
Small light and power.....do.....	13,944	22,373	30,438	50,446	73,373	80,759
Large light and power.....do.....	40,148	59,557	107,490	139,065	200,155	249,206
All other.....do.....	8,323	11,405	17,777	16,598	18,735	19,681
Revenue from ultimate customers.....\$1,000.....	1,990,955	2,440,218	3,341,518	5,086,465	7,277,267	8,020,439
Residential or domestic.....do.....	<sup>3</sup> 664,441	895,051	1,167,856	1,031,696	2,920,196	3,186,651
Rural (distinct rural rates).....do.....	<sup>4</sup> 24,524	49,473	90,345	157,611	216,391	228,815
Commercial and industrial:						
Small light and power.....do.....	575,598	689,253	850,213	1,333,755	1,846,634	1,993,099
Large light and power.....do.....	566,468	631,428	1,001,957	1,404,980	1,977,283	2,275,727
All other.....do.....	159,024	174,112	231,647	258,423	316,763	336,147
Ultimate customers, Dec. 31.....1,000.....	24,556	30,191	34,031	44,986	51,215	52,559
Residential or domestic.....do.....	<sup>3</sup> 20,332	24,952	28,117	37,533	43,140	44,409
Rural (distinct rural rates).....do.....	<sup>4</sup> 199	686	1,234	1,506	1,638	1,648
Commercial and industrial:						
Small light and power.....do.....	3,626	4,260	4,398	5,466	5,992	6,042
Large light and power.....do.....	347	178	162	235	281	288
All other.....do.....	63	115	119	156	164	172

<sup>1</sup> Sales, revenues, and customers not strictly comparable with later years due to change in classification of sales.

<sup>2</sup> Figures obtained by Edison Electric Institute from Federal Power Commission.

<sup>3</sup> Covers residential and eastern farms. <sup>4</sup> Covers western farms.

Source: Edison Electric Institute, New York, N. Y.; annual statistical bulletin.

# ELECTRIC UTILITIES

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**No. 645.—ELECTRIC UTILITIES—BALANCE SHEET AND INCOME ACCOUNT OF PRIVATELY OWNED CLASS A AND B COMPANIES: 1937 TO 1954**

[In thousands of dollars. For years ending Dec. 31. Data cover reports of all companies having annual electric revenues in excess of \$250,000. These concerns represent approximately 98 percent of the total privately owned electric utility industry]

ITEM	1937	1940	1945	1950	1953	1954
<b>COMPOSITE BALANCE SHEET</b>						
<b>Assets and other debits, total</b>	<b>15,378,135</b>	<b>15,579,209</b>	<b>14,568,323</b>	<b>20,589,713</b>	<b>26,698,947</b>	<b>29,053,888</b>
Utility plant	13,851,583	14,406,987	14,490,782	21,440,988	28,045,679	31,247,271
Electric	9,614,616	10,447,232	12,175,986	18,955,962	25,597,320	28,084,767
Other	1,512,880	1,650,604	1,823,914	2,485,026	3,048,350	3,162,504
Unclassified	2,724,087	2,309,061	490,882			
<i>Reserve for depreciation and amortization</i>	<i>1,495,250</i>	<i>1,912,974</i>	<i>3,064,919</i>	<i>4,355,260</i>	<i>5,499,062</i>	<i>5,906,470</i>
Utility plant less reserves	12,356,333	12,494,013	11,425,863	17,055,728	23,146,617	25,340,801
Utility plant adjustments	(2)	(2)	(2)	3,2,055	3,663	3,528
Investment and fund accounts	1,462,433	1,380,403	1,089,443	3,1,234,927	3,911,962	3,1,000,112
Current and accrued assets	959,076	1,122,902	1,695,721	2,058,124	2,377,149	2,436,859
Other assets	600,293	581,891	357,296	238,879	262,555	266,588
<b>Liabilities and other credits, total</b>	<b>15,378,135</b>	<b>15,579,209</b>	<b>14,568,323</b>	<b>20,589,713</b>	<b>26,698,947</b>	<b>29,053,888</b>
Capital stock	6,528,385	6,570,852	6,062,262	7,943,911	9,915,885	10,635,181
Common	4,306,364	4,392,601	3,879,314	5,046,117	6,236,269	6,643,746
Preferred	2,125,431	2,078,219	2,071,133	2,574,886	3,084,156	3,280,741
Premiums assessments, etc.	96,590	100,032	111,815	322,908	605,430	710,694
Capital surplus	223,998	256,899	239,439	323,508	335,753	325,862
Earned surplus	802,281	860,351	765,522	1,345,981	1,867,798	2,135,320
Long-term debt	6,850,195	6,895,460	6,141,453	9,188,616	12,040,021	13,322,242
Current and accrued liabilities	692,384	692,038	964,830	1,527,186	2,277,792	2,254,356
Other liabilities	280,892	303,600	394,817	260,511	311,698	380,947
<b>COMPOSITE INCOME ACCOUNT</b>						
Electric operating revenues	2,157,277	2,403,712	3,171,457	4,783,860	6,167,257	6,549,143
Electric operating revenue deductions	1,446,921	1,666,985	2,048,569	3,828,255	4,945,601	5,201,990
Operating expenses	928,629	1,013,189	1,453,615	2,454,904	3,060,201	3,146,611
Depreciation and amortization	212,865	250,396	315,858	434,434	559,680	627,579
Taxes	305,427	397,400	393,096	938,827	1,325,720	1,427,800
Net electric operating revenues	710,356	736,727	762,888	955,605	1,221,566	1,347,153
Income from electric plant leased to others	7,514	7,625	4,750	5,200	2,343	2,862
Electric utility operating income	717,870	744,352	767,638	960,805	1,223,909	1,350,015
Other utility operating income	51,095	60,536	65,082	72,273	96,597	108,913
Total utility operating income	768,965	804,888	822,720	1,033,078	1,320,506	1,458,928
Other income	70,698	68,149	54,338	68,156	48,932	67,185
Gross income	839,663	873,037	887,958	1,101,234	1,369,438	1,526,113
Income deductions	330,184	325,373	332,604	270,291	339,213	302,001
Interest on long-term debt	282,905	266,607	210,771	259,705	357,307	309,854
Other income deductions (net)	47,279	58,766	141,833	19,586	4,18,094	4,7,855
Net income	509,479	547,664	534,454	821,943	1,030,225	1,134,112

<sup>1</sup> Beginning 1950, limited amounts of unclassified utility plant and reserves for depreciation have been assigned to electric and other utility departments on the basis of estimates.

<sup>2</sup> Included with utility plant.

<sup>3</sup> Less reserves.

<sup>4</sup> Reverse item.

Source: Federal Power Commission; annual report, *Statistics of Electric Utilities in the United States*.

**No. 646.—ELECTRIC UTILITY DEPRECIATION PRACTICES—RELATIONSHIP OF RESERVES AND EXPENSES TO ELECTRIC PLANT: 1937 TO 1954**

[Money figures in millions. For years ending December 31. See headnote, table 645. Excludes amounts related to other than electric facilities; covers only those utilities segregating electric plant and reserve accounts from all plant and reserve accounts]

ITEM	1937	1945	1950	1951	1952	1953	1954
Number of utilities	121	253	249	255	288	287	280
Total electric plant, value	\$5,358	\$8,880	\$14,490	\$16,835	\$22,967	\$25,597	\$28,085
Estimated depreciable electric plant, value	(1)	\$7,928	\$12,667	\$14,930	\$20,441	\$22,833	\$25,142
Electric depreciation reserves:							
Amount	\$635	\$1,900	\$2,971	\$3,406	\$4,525	\$4,864	\$5,260
Ratio to total plant	11.0	21.4	20.5	20.2	10.7	19.0	18.8
Ratio to depreciable plant	do	24.0	23.5	22.8	22.1	21.3	21.0
Electric depreciation expense:							
Amount	\$103	\$214	\$331	\$385	\$508	\$560	\$628
Ratio to total plant	1.92	2.41	2.28	2.28	2.21	2.19	2.24
Ratio to depreciable plant	do	2.70	2.61	2.58	2.49	2.45	2.50

<sup>1</sup> Not available.

Source: Federal Power Commission; *Electric Utility Depreciation Practices, 1937-1951; Statistics of Electric Utilities in the United States, Privately Owned, 1952-1954*.

**NO. 647.—CONSUMPTION OF FUELS BY ELECTRIC UTILITIES FOR PRODUCTION OF ELECTRIC ENERGY: 1920 TO 1955**

[For years ending December 31. Use of fuels for stand-by purposes is included. See also *Historical Statistics*, series G 104-199]

YEAR	CONSUMPTION OF FUELS					Con- sump- tion of coal and coal equiva- lent of other fuels (1,000 short tons)	Out- put by use of fuels <sup>2</sup> (million kilo- watt- hours)	Con- sump- tion per kilo- watt- hour (pounds)		
	Coal (1,000 short tons)									
	Total	Bitumi- nous <sup>1</sup>	Anthra- cite	Lignite <sup>1</sup>	Fuel oil (1,000 42-gal. bbl.)	Gas (million cubic feet)				
1920	31,640	30,099	1,540	-----	12,690	22,136	35,791	23,495		
1925	35,615	33,803	1,812	-----	9,794	45,472	40,014	39,443		
1930	40,278	38,130	2,148	-----	8,805	119,558	47,545	59,583		
1935	32,715	30,936	1,770	-----	11,257	124,118	40,797	56,680		
1940	51,474	47,721	2,348	1,405	16,325	180,096	62,942	93,963		
1945	74,725	70,621	3,122	982	20,228	326,212	92,642	142,331		
1947	89,531	85,033	3,522	976	45,309	373,064	115,672	176,983		
1948	99,886	94,470	3,966	1,151	42,645	478,097	130,122	199,708		
1949	83,963	79,397	3,364	1,213	66,301	550,121	124,574	200,965		
1950	91,871	86,855	3,609	1,407	75,420	628,919	138,421	232,813		
1951	105,768	100,378	3,870	1,521	63,945	763,898	154,498	270,531		
1952	107,071	101,795	3,762	1,514	67,218	910,117	160,872	203,640		
1953	116,897	110,774	3,614	1,509	82,238	1,034,272	178,491	337,042		
1954	118,385	113,660	3,166	1,558	66,745	1,165,498	180,367	364,354		
1955 (prel.)	143,660	138,784	3,209	1,666	75,258	1,151,834	206,899	433,684		
								0.95		

<sup>1</sup> Lignite included with bituminous coal prior to 1940.

<sup>2</sup> Output by use of wood and waste not included except small amount in 1955.

Source: Federal Power Commission; annual report, *Consumption of Fuel for Production of Electric Energy*; also, related monthly reports.

**NO. 648.—FARM ELECTRIFICATION: 1930 TO 1955**

[Beginning 1950, data reflect change in Census definition of farm, which tends to decrease number of farms]

ITEM	1930	1940	1945	1950	1953	1954	1955
Total number of farms <sup>1</sup>	6,288,648	6,006,799	5,859,169	5,382,162	-----	4,782,393	-----
Total number of farms served, Dec. 31	649,900	2,050,000	2,929,000	4,424,000	4,992,000	5,079,000	4,487,000
By private companies	1,448,500	1,707,100	1,998,000	2,158,000	2,194,000	1,940,000	2,547,000
By public authorities, total	601,500	1,221,900	2,426,000	2,834,000	2,855,000	2,885,000	2,287,000
By REA cooperatives <sup>2</sup>	517,500	1,051,000	2,168,000	2,544,000	2,592,000	2,592,000	2,287,000
Other public <sup>3</sup>	84,000	170,900	258,000	290,000	293,000	293,000	260,000
<b>EASTERN FARMS<sup>4</sup></b>							
Number of customers (farms served), average	423,393	1,431,028	2,160,265	3,288,000	3,808,000	3,882,000	3,445,000
Sales, kilowatt-hours	315,597	1,535,350	3,394,000	7,677,000	11,439,000	12,600,000	12,574,000
Revenue	\$1,000	22,166	66,525	124,309	244,136	335,625	358,907
Kilowatt-hours per customer		745	1,073	1,571	2,325	3,004	3,246
Annual bill, average	dollars	52.37	46.46	57.50	74.25	88.02	92.61
Revenue per kilowatt-hour	cents	7.03	4.33	3.66	3.18	2.93	2.85
<b>WESTERN FARMS<sup>4</sup></b>							
Number of customers (farms served), average	189,661	413,989	637,600	958,000	1,119,000	1,147,000	1,009,000
Sales, kilowatt-hours	1,473,195	1,820,000	2,514,000	4,632,000	8,020,000	8,236,000	8,254,000
Revenue	\$1,000	24,524	35,500	52,595	88,470	144,233	150,138
Kilowatt-hours per customer		7,768	4,386	3,943	4,833	7,172	7,180
Annual bill, average	dollars	128.95	85.72	82.41	92.31	129.10	130.68
Revenue per kilowatt-hour	cents	1.68	1.95	2.09	1.91	1.80	1.82

<sup>1</sup> Census figures; relate to Apr. 1 for 1930, 1940, and 1950, Jan. 1 for 1945, and Nov. for 1954.

<sup>2</sup> Represents cooperatives only and excludes customers of all other agencies (companies and municipals) financed in whole or in part by REA.

<sup>3</sup> Customers served by municipal systems and various power districts not financed by REA.

<sup>4</sup> "Eastern farms" are those located in the area not affected by heavy irrigation pumping and their statistics are a measure of use of electricity on the average farm. "Western farms" are those where irrigation may be involved. Possibly less than one-fifth of farms in Irrigation States do actual pumping, but statistics are not available to make a more accurate separation. Figures for "Western farms," therefore, are more a reflection of fluctuation in the energy used than they are of the conventional farm requirements.

Source: Edison Electric Institute, New York, N. Y.; annual statistical bulletin.

## No. 649.—RURAL ELECTRIFICATION ADMINISTRATION—SUMMARY OF OPERATIONS: 1935 TO 1955

YEAR	LOANS APPROVED, CUMULATIVE AS OF DEC. 31 <sup>1</sup>		SYSTEMS IN OPERATION, DEC. 31 <sup>2</sup>			BORROWERS' OPERATIONS DURING YEAR <sup>3</sup>			
	Bor- row- ers <sup>2</sup>	Amount	Sys- tems <sup>4</sup>	Miles ener- gized <sup>5</sup>	Con- sumers served <sup>6</sup>	Energy generated	Energy purchased	Energy distrib- uted	Revenue
	Number	\$1,000	Number	Miles	Number	1,000 kwh	1,000 kwh	1,000 kwh	\$1,000
1935	6,977	6,977	2	0	0				
1940	791	351,455	685	267,846	674,495	(6)	(8)	(8)	(8)
1944	904	517,700	826	410,471	1,216,798	213,462	2,105,332	1,925,734	64,043
1945	961	666,954	848	449,579	1,408,918	258,397	2,344,550	2,136,384	73,607
1946	1,009	658,009	869	506,838	1,683,901	319,913	2,730,265	2,477,509	89,948
1947	1,029	1,190,527	911	603,026	2,046,095	33,282	3,720,705	3,398,290	114,998
1948	1,044	1,574,924	952	759,494	2,518,450	718,283	5,018,725	4,757,051	151,674
1949	1,066	1,909,280	995	943,385	3,040,425	903,412	6,541,739	6,227,471	197,029
1950	1,076	2,311,637	1,007	1,088,777	3,413,407	1,076,946	8,164,801	7,778,735	241,373
1951	1,076	2,484,444	1,016	1,178,515	3,665,066	1,412,640	9,990,422	9,738,486	285,141
1952	1,081	2,668,946	1,020	1,244,645	3,858,396	1,630,848	11,757,007	11,534,359	323,575
1953	1,078	2,778,136	1,022	1,297,264	4,024,826	2,103,446	13,737,814	13,755,494	366,428
1954	1,075	2,946,228	1,024	1,332,937	4,174,346	2,720,907	16,129,367	16,508,177	412,842
1955 (prel.)	1,077	3,125,068	1,026	1,361,168	4,244,000	3,272,440	18,419,053	19,166,928	454,818

<sup>1</sup> Net; i. e., excludes loans rescinded. For years prior to 1948, includes amounts not yet under loan contract.<sup>2</sup> Organizations, mainly cooperatives, to which loans for extending central station electric service in rural areas are made.<sup>3</sup> Includes data at time of repayment of loan for borrowers whose loans have been repaid in full. As of Dec. 31, 1955, there were 44 such borrowers, with 10,395 miles energized and 40,903 consumers served.<sup>4</sup> Rural electric distribution, generation, and transmission systems operated by REA borrowers.<sup>5</sup> Pole miles of electric distribution and transmission line in service.<sup>6</sup> Through 1954, this item was headed "Consumers connected." The change was a result of a revised definition of a consumer as reported by REA borrowers, effective Jan. 1, 1955. Figures are on the former basis through 1954 and on the new basis beginning 1955. The change resulted in downward adjustment in the national total of about 60,000 for 1955, chiefly through elimination of idle services.<sup>7</sup> Includes energy sales and revenues of power sold by one REA borrower to another.<sup>8</sup> Not available.Source: Department of Agriculture, Rural Electrification Administration; *Agricultural Statistics*.

## No. 650.—GAS UTILITY INDUSTRY—CUSTOMERS AND REVENUES, BY CLASS OF SERVICE: 1932 TO 1955

[Covers natural, manufactured, mixed, and liquid petroleum gas. Based on questionnaire mailed to all privately owned gas utilities and municipally owned gas departments in the United States, except those with annual revenues less than \$25,000, which in the aggregate account for only a negligible portion of the industry]

YEAR	CUSTOMERS (1,000) <sup>1</sup>					REVENUES (\$1,000) <sup>2</sup>				
	Total	Residen- tial	Com- mercial	Indus- trial	Other	Total	Residen- tial	Com- mercial	Indus- trial	Other
1932	15,532	14,452	999	73	8	723,228	537,146	92,807	90,674	2,601
1935	15,819	14,725	1,014	72	8	726,809	503,111	90,815	130,453	2,430
1936	16,170	15,026	1,058	77	9	770,129	516,049	97,318	151,474	5,288
1937	16,605	15,466	1,056	74	9	801,939	528,297	99,768	167,073	6,801
1938	16,876	15,697	1,094	75	10	777,167	522,593	101,061	144,902	8,611
1939	17,128	15,926	1,121	73	8	814,156	537,565	105,240	164,921	6,430
1940	17,600	16,381	1,138	73	8	871,682	573,319	111,964	181,852	4,547
1941	18,126	16,904	1,137	78	7	914,036	574,842	114,323	219,805	5,066
1942	18,734	17,511	1,137	78	8	994,318	622,670	127,030	237,517	7,092
1943	19,064	17,838	1,141	77	8	1,064,044	647,558	127,528	277,496	11,462
1944	19,585	18,320	1,177	82	6	1,108,162	666,734	133,120	293,315	14,993
1945	19,977	18,607	1,278	80	12	1,152,807	705,211	148,597	280,908	18,091
1946	20,636	19,157	1,377	87	15	1,212,565	754,073	160,982	284,317	13,193
1947	21,416	19,835	1,474	91	16	1,395,616	861,558	190,759	325,642	17,657
1948	22,245	20,562	1,571	94	18	1,579,462	957,925	220,906	377,408	23,223
1949	23,035	21,264	1,657	97	17	1,658,595	1,031,293	238,077	395,559	23,666
1950	24,001	22,146	1,739	100	16	1,948,002	1,177,070	265,571	479,610	25,751
1951	24,953	23,042	1,787	101	23	2,223,109	1,334,967	294,485	557,068	41,639
1952	25,850	23,852	1,869	104	25	2,467,284	1,456,718	321,309	639,236	50,021
1953	26,705	24,647	1,926	107	25	2,715,624	1,574,428	338,914	739,202	66,080
1954	27,528	25,398	1,991	112	28	3,052,144	1,782,670	377,749	820,515	71,210
1955 <sup>3</sup>	28,538	26,305	2,083	119	31	3,473,328	2,026,623	434,405	932,652	79,648

<sup>1</sup> Yearly averages.<sup>2</sup> Excludes revenues from sales for resale.<sup>3</sup> Preliminary.Source: American Gas Association, New York, N. Y.; yearbook, *Gas Facts*.

No. 651.—GAS UTILITY INDUSTRY—CUSTOMERS AND REVENUES, BY TYPE OF GAS,  
CLASS OF SERVICE, AND STATES: 1954

[See headnote, table 650]

TYPE OF GAS, DIVISION, AND STATE	CUSTOMERS (1,000) <sup>1</sup>					REVENUES (\$1,000) <sup>2</sup>				
	Total	Resi- dential	Com- mer- cial	Indus- trial	Other	Total	Resi- dential	Com- mer- cial	Indus- trial	Other
<b>United States,</b> all types.....	<b>27,527.8</b>	<b>25,397.5</b>	<b>1,990.7</b>	<b>111.9</b>	<b>27.7</b>	<b>3,052,144</b>	<b>1,782,670</b>	<b>377,749</b>	<b>820,515</b>	<b>71,210</b>
Natural gas.....	21,398.4	19,719.6	1,572.4	81.6	24.8	2,576,310	1,436,653	303,923	767,212	68,522
Manufactured gas.....	1,769.1	1,600.0	76.0	1.5	111,004	70,200	27,432	11,784	1,588	
Mixed gas.....	4,093.6	3,833.7	236.2	22.4	1.3	344,718	261,109	41,800	40,849	960
Liquefied petroleum gas.....	266.7	244.2	22.1	0.3	0.1	20,112	14,708	4,504	670	140
New England.....	1,626.4	1,537.1	81.2	7.3	0.8	128,782	97,077	18,240	12,604	861
Connecticut.....	373.0	351.8	19.2	1.9	0.1	32,092	23,167	4,231	4,619	75
Maine.....	38.8	36.7	2.0	0.1	(3)	3,051	2,321	497	232	1
Massachusetts.....	993.8	937.5	51.3	4.4	0.6	78,012	59,741	11,262	6,337	672
New Hampshire.....	36.5	34.1	2.1	0.2	0.1	2,869	2,107	494	245	23
Rhode Island.....	162.4	156.2	5.5	0.7	(3)	11,421	8,721	1,523	1,088	89
Vermont.....	21.9	20.8	1.1	(3)	(3)	1,337	1,020	233	83	1
Middle Atlantic.....	7,096.1	6,571.3	487.8	29.5	7.5	633,102	448,397	85,855	93,113	5,737
New Jersey.....	1,330.7	1,229.7	95.3	5.7	(3)	101,088	75,833	15,576	9,408	221
New York.....	3,739.6	3,448.2	271.4	15.0	5.0	286,887	208,582	46,175	28,290	3,840
Pennsylvania.....	2,025.8	1,803.4	121.1	8.8	2.5	245,177	163,982	24,104	55,415	1,676
East North Central.....	6,118.7	5,722.1	366.9	23.2	6.5	753,776	474,648	83,350	191,265	4,513
Illinois.....	1,908.8	1,796.3	100.0	11.5	1.0	211,845	121,735	18,951	70,766	393
Indiana.....	650.8	605.4	42.5	1.8	1.1	75,547	42,670	8,567	23,791	519
Michigan.....	1,249.0	1,178.5	66.6	3.9	(3)	153,542	113,273	15,123	25,003	143
Ohio.....	1,842.0	1,701.5	132.1	4.0	4.4	266,100	163,652	35,055	64,918	2,475
Wisconsin.....	468.1	440.4	25.7	2.0	(3)	46,742	33,318	5,654	6,787	983
West North Central.....	2,183.3	1,998.5	173.7	10.4	0.7	309,339	170,851	37,464	94,644	6,380
Iowa.....	339.1	307.8	30.4	0.7	0.2	46,325	26,532	7,404	12,306	83
Kansas.....	458.2	411.4	44.5	2.2	0.1	65,696	28,876	7,017	27,596	2,207
Minnesota.....	395.4	369.8	23.8	1.8	(3)	55,686	36,067	5,481	16,519	619
Missouri.....	683.7	634.8	45.7	3.1	0.1	87,835	53,893	9,832	22,897	1,213
Nebraska.....	231.3	206.5	22.0	2.5	0.3	39,517	19,486	5,169	12,766	2,096
North Dakota.....	30.3	27.5	2.8	(3)	(3)	3,178	2,092	874	150	62
South Dakota.....	45.8	40.7	4.5	0.1	(3)	8,102	3,905	1,687	2,410	100
South Atlantic.....	1,934.6	1,777.4	145.6	5.4	6.2	221,327	132,673	30,342	53,831	4,481
Delaware.....	54.8	51.5	3.3	(3)	(3)	4,173	3,338	563	267	5
District of Columbia.....	181.8	165.1	15.0	0.7	1.0	18,655	14,264	3,528	360	503
Florida.....	185.3	173.0	11.1	0.2	1.0	17,644	9,630	3,972	3,235	807
Georgia.....	333.3	302.8	28.0	2.5	(3)	48,421	20,849	4,742	22,353	477
Maryland.....	456.8	426.4	29.2	0.7	0.5	43,802	33,675	5,087	4,734	306
North Carolina.....	75.3	66.1	7.5	0.2	1.5	9,040	4,584	2,014	1,919	523
South Carolina.....	49.7	44.3	5.4	(3)	(3)	6,052	2,988	1,308	1,682	74
Virginia.....	277.7	257.2	19.2	0.5	0.8	33,905	21,591	4,280	7,265	769
West Virginia.....	310.9	291.0	26.9	0.6	1.4	39,635	21,754	4,848	12,016	1,017
East South Central.....	1,053.2	947.6	100.8	3.5	1.3	165,956	72,045	20,865	63,542	9,504
Alabama.....	204.5	270.8	22.8	0.9	(3)	49,744	20,314	4,609	24,117	704
Kentucky.....	325.1	294.0	29.6	0.6	0.9	40,536	23,321	4,860	11,488	867
Mississippi.....	207.5	183.3	22.8	1.2	0.2	31,228	11,627	3,933	14,830	838
Tennessee.....	226.1	199.5	25.6	0.8	0.2	44,448	16,783	7,463	13,107	7,095
West South Central.....	3,021.4	2,720.6	278.2	19.1	3.5	358,264	137,336	34,621	176,989	9,318
Arkansas.....	223.9	194.4	27.9	1.5	0.1	34,180	11,106	4,016	18,509	549
Louisiana.....	519.7	476.9	30.2	2.9	0.7	72,798	20,725	3,395	47,036	1,640
Oklahoma.....	514.6	459.4	50.7	3.3	1.2	54,235	27,047	7,885	18,536	1,267
Texas.....	1,763.2	1,589.9	160.4	11.4	1.5	197,053	78,488	19,825	92,908	5,862
Mountain.....	846.1	754.3	86.8	3.8	1.2	124,407	56,461	19,852	43,951	4,143
Arizona.....	190.2	170.6	18.5	1.0	0.1	24,874	9,155	3,090	12,443	186
Colorado.....	271.4	240.1	30.8	0.4	0.1	40,321	19,096	8,503	12,144	578
Idaho.....	0.5	0.4	0.1	—	—	60	35	25	—	—
Montana.....	90.4	80.3	9.7	0.4	(3)	13,586	7,053	2,982	3,142	409
Nevada.....	9.9	8.9	1.0	(3)	(3)	1,843	889	367	432	155
New Mexico.....	124.5	111.1	11.8	0.9	0.7	20,029	7,878	2,542	6,994	2,615
Utah.....	106.5	96.5	9.1	0.9	0.2	16,218	8,247	1,019	6,944	8
Wyoming.....	52.7	46.4	5.8	0.2	0.3	7,476	4,108	1,324	1,852	192
Pacific.....	3,648.0	3,368.6	269.7	9.7	(3)	357,191	193,182	47,160	90,576	26,273
California.....	3,484.4	3,225.1	250.3	9.0	(3)	338,749	180,861	41,804	89,829	26,255
Oregon.....	93.4	83.7	9.2	0.5	(3)	10,379	7,411	2,559	404	5
Washington.....	70.2	59.8	10.2	0.2	(3)	8,063	4,010	2,797	343	13

<sup>1</sup> Averages for the year.

<sup>2</sup> Excludes revenues from sales for resale.

<sup>3</sup> Less than 50 customers.

Source: American Gas Association, New York, N. Y.; yearbook, *Gas Facts*.

No. 652.—GAS UTILITY INDUSTRY—CUSTOMERS, SALES, AND REVENUES, BY TYPE OF GAS: 1954 AND 1955

[See headnote, table 650]

TYPE OF GAS	CUSTOMERS (1,000) <sup>1</sup>			SALES (1,000,000 therms)			REVENUES (\$1,000) <sup>2</sup>		
	1954	1955 (prel.)	Percent change	1954	1955 (prel.)	Percent change	1954	1955 (prel.)	Percent change
All types.....	27,528	28,538	+3.7	61,428	66,458	+8.2	3,052,144	3,473,328	+13.8
Natural gas.....	21,398	23,035	+7.6	58,014	62,908	+8.4	2,576,310	2,994,617	+16.2
Manufactured gas.....	1,760	1,191	-32.7	542	425	-21.6	111,004	87,186	-21.5
Mixed gas.....	4,094	4,055	-0.9	2,792	3,039	+8.8	344,718	370,454	+7.5
Liquefied petroleum gas.....	267	257	-3.8	80	86	+7.6	20,112	21,071	+4.8

<sup>1</sup> Yearly averages.

<sup>2</sup> Excludes revenues from sales for resale.

Source: American Gas Association, New York, N. Y.; yearbook, *Gas Facts*.

No. 653.—GAS UTILITY AND PIPELINE INDUSTRY—COMPOSITE INCOME ACCOUNTS: 1945 TO 1954

[In millions of dollars]

ITEM	1945	1947	1948	1949	1950	1951	1952	1953	1954
Operating revenues.....	1,414	1,760	2,042	2,227	2,634	3,110	3,571	4,130	4,613
Operating revenue deductions.....	1,196	1,516	1,771	1,914	2,254	2,675	3,105	3,590	4,013
Operating expenses.....	832	1,161	1,378	1,493	1,733	2,015	2,366	2,772	3,120
Depreciation, retirements, depletion, etc.....	130	133	147	162	181	218	253	293	329
Federal taxes.....	234	{ 109	120	118	183	269	291	312	347
Other taxes.....	{ 113	126	141	157	173	195	213	217	
Net operating revenues.....	218	244	271	313	380	435	466	540	600
Income from utility plant leased to others.....	(1)	(1)	(1)	{ (1)	1	2	2	3	2
Rent for lease of utility plant.....	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)
Utility operating income.....	218	244	271	313	381	437	468	543	602
Other income (nonoperating).....	16	35	28	29	35	29	34	30	48
Gross income.....	234	279	299	342	416	466	502	573	650
Income deductions.....	77	61	71	82	90	119	141	180	200
Interest on long-term debt.....	55	52	61	77	94	116	136	169	194
Other income deductions (net).....	22	9	10	5	2 4	3	5	11	6
Net income.....	157	218	228	260	326	347	361	393	450

<sup>1</sup> Less than \$500,000.

<sup>2</sup> Reverse item.

Source: American Gas Association, New York, N. Y.; yearbook, *Gas Facts*.

No. 654.—ESTIMATES OF NATURAL GAS RESERVES: 1945 TO 1955

[In millions of cubic feet. Volumes calculated at a pressure base of 14.65 p.s.i., absolute, and at a standard temperature of 60° F.]

YEAR	NATURAL GAS ADDED DURING YEAR			Net increase in underground storage	Net production during year	Estimated proved reserves as of end of year	Increase over previous year
	Total	Extensions and revisions	Discoveries of new fields and new pools in old fields				
1945.....						147,789,367	
1946.....	17,729,152	(1)	(1)	(1)	4,942,617	160,575,901	12,786,535
1947.....	10,980,824	7,570,654	3,410,170	(1)	5,629,811	165,926,914	5,351,013
1948.....	13,898,572	9,769,483	4,129,089	51,482	6,007,628	173,869,340	7,942,426
1949.....	12,674,299	8,061,429	4,612,870	82,746	6,245,041	180,381,344	6,512,004
1950.....	12,049,732	9,172,381	2,877,351	54,301	6,892,678	185,592,699	5,211,355
1951.....	16,052,901	13,013,600	3,039,385	132,751	7,966,941	193,811,600	8,218,801
1952.....	14,345,513	8,934,470	5,411,043	198,850	8,639,688	199,716,225	5,904,725
1953.....	20,453,016	13,371,355	7,081,661	2,616,431	9,288,540	211,447,132	11,730,907
1954.....	9,599,203	4,032,309	4,966,894	90,906	9,426,509	211,710,732	263,600
1955.....	22,017,194	16,298,125	5,719,069	87,637	10,118,118	223,607,445	11,986,713

<sup>1</sup> Not estimated separately.

<sup>2</sup> Includes all native gas in storage reservoirs formerly classified as a natural gas reserve.

Source: American Gas Association, New York, N. Y.; yearbook, *Gas Facts*.

No. 655.—WATER POWER—DEVELOPED, 1920 TO 1954, AND ESTIMATED UNDEVELOPED,  
1954, BY STATES

[In thousands of kilowatts. As of December 31]

DIVISION AND STATE	DEVELOPED WATER POWER (capacity of actual installations only)										Estimated undeveloped water power, 1954	
	Electric utilities only		Electric utilities and industrial plants									
	1920	1930	Total	Utilities	1939	Total	Utilities	Industrial	1950	Total	Utilities	Industrial
United States	3,704	8,585	12,075	11,004	18,675	17,675	1,000	24,238	23,211	1,027	82,804	
New England	291	753	1,115	833	1,239	971	268	1,335	1,050	285	2,990	
Maine	40	174	301	188	301	270	121	471	321	150	1,371	
New Hampshire	43	212	292	235	312	262	50	312	262	50	687	
Vermont	49	156	173	158	102	177	15	200	187	14	525	
Massachusetts	114	129	228	161	223	168	55	230	180	50	286	
Rhode Island	2	2	14	3	11	3	8	8	2	5		
Connecticut	44	79	107	88	107	89	18	114	98	16	121	
Middle Atlantic	662	1,290	1,633	1,563	1,678	1,602	76	1,750	1,668	82	6,395	
New York	540	1,074	1,229	1,165	1,225	1,155	70	1,300	1,225	76	3,020	
New Jersey	1	1	6	3	9	6	3	9	6	3	225	
Pennsylvania	120	215	390	395	444	441	3	440	436	4	3,141	
East North Central	372	602	790	703	901	828	73	944	861	83	3,048	
Ohio	17	13	16	12	16	12	4	15	11	4	525	
Indiana	11	35	38	35	37	37	3	35	35		668	
Illinois	43	50	51	49	54	49	5	52	48	4	1,209	
Michigan	167	258	368	344	399	384	15	422	396	26	328	
Wisconsin	134	247	318	263	396	347	49	420	371	48	318	
West North Central	257	279	537	501	629	577	52	839	797	42	6,163	
Minnesota	88	122	158	126	181	138	43	185	151	34	227	
Iowa	138	124	127	127	137	137		140	140		403	
Missouri	12	13	151	151	161	151		194	194		2,942	
North Dakota		(1)									599	
South Dakota	5	4	4	4	11	3	8	173	164	8	1,022	
Nebraska	7	11	87	86	142	142	(1)	141	141	(1)	680	
Kansas	7	6	9	7	6	6		6	6		290	
South Atlantic	589	1,603	2,224	1,803	2,767	2,297	470	3,423	2,949	474	8,058	
Delaware		(1)			1	1	1	1	1	1		
Maryland	1	272	273	271	272	271	1	272	271	1	360	
District of Columbia		2	3	2	3	3	3	3	3			
Virginia	45	83	204	182	207	183	24	423	400	23	1,196	
West Virginia	9	56	209	101	208	101	107	208	101	107	2,324	
North Carolina	144	397	651	400	662	662	300	1,057	755	302	1,156	
South Carolina	231	506	520	495	679	653	26	958	932	27	872	
Georgia	155	271	349	337	425	412	13	489	476	13	2,060	
Florida	4	14	14	14	13	13		13	13		90	
East South Central	170	863	1,270	1,140	2,729	2,721	8	3,576	3,568	8	3,636	
Kentucky		105	111	111	271	271		541	541		1,400	
Tennessee	97	127	432	310	1,238	1,238		1,736	1,736		507	
Alabama	72	632	727	719	1,220	1,212	8	1,299	1,291	8	1,310	
Mississippi											410	
West South Central	4	19	140	139	466	463	3	842	839	3	3,399	
Arkansas	1	11	67	67	148	145	3	316	313	3	1,518	
Louisiana			1								50	
Oklahoma	1	2	2	2	74	74		166	166		850	
Texas	2	6	71	71	245	245	(1)	360	359	(1)	981	
Mountain	487	784	1,583	1,581	2,286	2,282	4	3,629	3,625	4	20,105	
Montana	212	300	321	321	427	420	1	852	851	1	5,375	
Idaho	135	225	257	257	441	440	1	736	735	1	7,320	
Wyoming	2	12	47	47	79	79		107	107		955	
Colorado	48	52	67	66	92	91	1	249	248	1	1,608	
New Mexico	1	1	1	1	25	25		25	25		209	
Arizona	23	87	293	293	541	541		980	980		3,291	
Utah	58	98	93	92	94	94		93	93		1,215	
Nevada	9	9	505	504	587	586	1	587	586	1	132	
Pacific	872	2,391	2,783	2,741	5,979	5,933	46	7,901	7,854	47	29,010	
Washington	241	596	812	784	2,591	2,504	27	3,553	3,523	29	15,184	
Oregon	65	156	286	278	783	766	17	1,454	1,438	16	5,971	
California	566	1,640	1,685	1,680	2,606	2,604	2	2,894	2,893	2	7,855	

<sup>1</sup>Less than 500.Source: Federal Power Commission. Developed water power published in annual report, *Production of Electric Energy and Capacity of Generating Plants*.

## Section 20

### Roads and Motor Vehicles

This section presents statistics relating to the mileage, control, and financing of public roads and to motor-vehicle travel and usage. The Bureau of Public Roads of the Department of Commerce is the principal compiler of data concerning public roads and motor-vehicle registrations. Since 1945, it has published such data in its annual *Highway Statistics*. For statistics prior to 1945, the same Bureau's *Highway Statistics, Summary to 1945*, presents public roads data carried back over periods ranging from 20 to 50 years. The motor-vehicle registration figures which appear in *Highway Statistics* are compiled from reports and records of the State highway departments. The same publication also includes statistics on motor-vehicle fuel consumption.

The first road milage survey was made in 1904. Data for 1904 and other road mileage surveys made in 1909, 1914, and 1921 appear in Department of Agriculture Bulletin 1279, *Rural Highway Mileage, Income, and Expenditures, 1921-22*.

Two useful handbooks of statistics in this field are issued annually by the Automobile Manufacturers Association of Detroit, Michigan. These are *Automobile Facts and Figures* and *Motor Truck Facts*. In addition, the Bureau of the Census compiles and publishes statistics on the motor vehicles and equipment industry which appear in the *Census of Manufactures* reports and in its *Annual Survey of Manufactures*. Data from these reports are also included in section 30, Manufactures, in this volume.

**Rural and other roads.**—The term "rural" as used here may be roughly defined as the area which lies outside of communities having 2,500 inhabitants or more. "Urban extensions" are continuations of designated State-system roads in or through cities or towns of 2,500 inhabitants or more. "County and other local roads" are rural roads over which the State exercises no direct control.

**Highway systems.**—The Federal-Aid Highway Act of 1916 provides for the sharing of highway construction costs between the States and the Federal Government with the initiative retained by each State for choosing projects and carrying them out. The planning and development of Federal-aid systems began in 1921. Federal funds share with State funds in costs of engineering, construction, and right-of-way acquisition on the designated systems while other charges, such as maintenance and policing, are borne entirely by the States and local agencies.

The Federal-aid primary system connects all of the principal cities, county seats, ports, manufacturing areas, and other traffic generating areas. In general, these are at the same time the main State trunkline roads. Certain sections of the primary system are more important than others from the viewpoint of national interest. Consequently, in 1944, the Congress authorized the creation of the national system of interstate highways, not to exceed 40,000 miles in length.

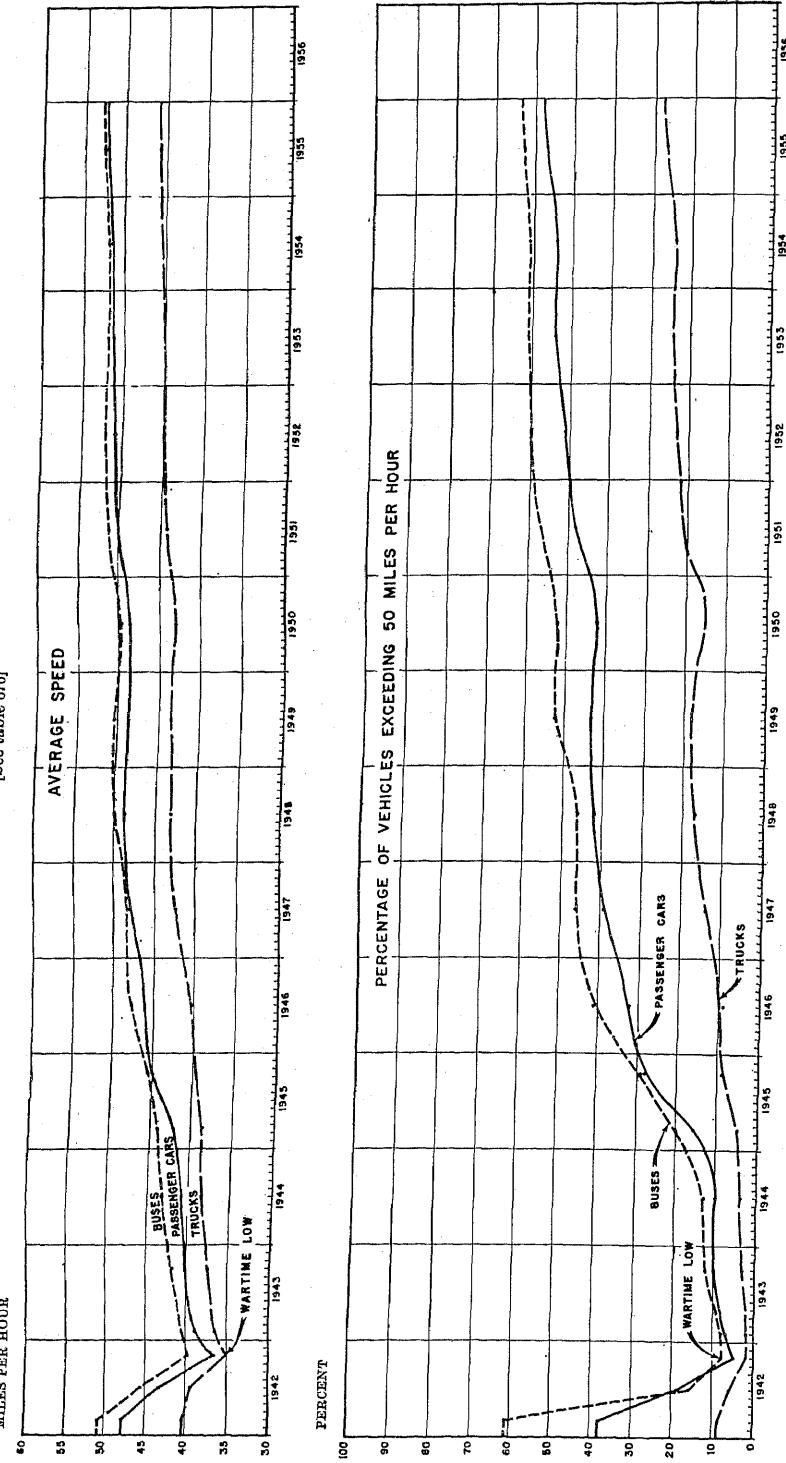
The Federal-aid secondary system, approved by Congress in 1944, commonly referred to as the farm-to-market system, consists of important feeder roads linking the farms, factories, distribution outlets, and smaller communities with the primary system.

**Historical statistics.**—Tabular headnotes (as "See also *Historical Statistics*, series K 177-181") provide cross-references, where applicable, to *Historical Statistics of the United States, 1789-1945*. See preface.

**Note.**—This section presents data for the most recent year or period available on April 25, 1956, when the material was organized and sent to the printer. In a few instances, more recent data were added later.

FIG. XXXIV.—SPEED OF MOTOR VEHICLES: 1942 TO 1955

[See table 676]



Source: Department of Commerce, Bureau of Public Roads.

## No. 656.—EXISTING MILEAGE OF RURAL ROADS: 1921 TO 1954

[In thousands of miles. As of December 31. Rural roads comprise roads outside incorporated areas and certain of the more populous unincorporated areas. Figures cover continental U. S. See also *Historical Statistics*, series K 177-181.]

TYPE AND CONTROL	1921	1925	1930	1935	1940	1945	1950	1952	1953	1954
All rural roads	2,925	3,006	3,009	3,032	2,990	3,012	2,990	2,993	3,012	3,030
Primary State highways				332	320	339	363	371	377	379
Secondary State highways	203	275	324	{ 58	81	84	88	93	87	89
County roads under State control				115	114	118	122	126	127	129
County and local roads <sup>1</sup>	2,722	2,731	2,685	2,527	2,466	2,471	2,417	2,403	2,421	2,433
Surfaced rural roads	387	521	694	1,063	1,340	1,495	1,679	1,782	1,855	1,906
Primary State highways				280	302	316	351	361	369	372
Secondary State highways	84	145	227	{ 39	65	71	73	81	79	82
County roads under State control				38	55	63	83	94	98	100
County and local roads <sup>1</sup>	303	376	467	706	918	1,045	1,172	1,246	1,309	1,352
Nonsurfaced rural roads <sup>2</sup>	2,538	2,485	2,315	1,969	1,650	1,517	1,311	1,211	1,157	1,124
Primary State highways				52	27	23	12	10	8	7
Secondary State highways	119	130	97	{ 19	16	13	15	12	8	7
County roads under State control				77	59	55	39	32	29	29
County and local roads <sup>1,2</sup>	2,419	2,355	2,218	1,821	1,548	1,426	1,245	1,157	1,112	1,081

<sup>1</sup> Includes mileage in national and State parks, forests, reservations, etc., not included as part of State or local systems.

<sup>2</sup> Includes mileage not classified by type of surface.

Source: Department of Commerce, Bureau of Public Roads; annual report, *Highway Statistics*.

No. 657.—EXISTING RURAL AND MUNICIPAL MILEAGE, BY GOVERNMENTAL CONTROL: 1930 TO 1954

[In thousands. As of December 31]

GOVERNMENTAL CONTROL	1930	1935	1940	1945	1948	1949	1950	1951	1952	1953	1954
Total mileage				3,319	3,323	3,322	3,313	3,326	3,343	3,366	3,395
Rural mileage	3,009	3,032	2,990	3,012	3,007	3,003	2,990	2,987	2,993	3,013	3,030
Under State control	324	505	524	544	564	572	581	592	599	601	607
Under local control	2,685	2,527	2,466	{ 2,398	2,373	2,361	2,336	2,321	2,318	2,322	2,331
Under Federal control	(1)	(1)	(1)	70	70	70	73	74	76	90	92
Municipal mileage				307	316	319	323	339	350	354	365
Under State control	(1)	18	27	33	32	33	36	37	38	39	41
Under local control	(1)	(1)	(1)	274	284	286	287	302	312	315	324

<sup>1</sup> Not available.

Source: Department of Commerce, Bureau of Public Roads; annual report, *Highway Statistics*.

## No. 658.—EXISTING ROAD MILEAGE—MUNICIPAL MILEAGE, AND RURAL MILEAGE BY TYPE AND GOVERNMENTAL CONTROL, BY STATES: 1954

[As of December 31. Rural roads comprise roads outside incorporated areas and certain of the more populous unincorporated areas. Compiled for latest available year from reports of State authorities and planning survey data.]

STATE	Total rural and municipal	Munic- ipal	Total	RURAL				
				Type		Governmental control		
				Surfaced	Nonsur- faced	State 1	Local	
United States	3,394,561	364,750	3,029,811	1,905,871	1,123,940	606,792	2,331,356	91,663
Alabama	68,550	7,184	61,366	45,051	16,315	<sup>3</sup> 11,243	50,123	-----
Arizona	30,416	1,846	28,570	11,317	17,253	3,874	16,459	8,237
Arkansas	76,925	4,927	71,998	36,217	35,781	9,494	60,771	1,733
California	136,756	24,505	112,251	70,581	41,720	12,537	81,372	18,342
Colorado	75,431	4,676	70,755	24,521	46,234	7,616	61,961	1,178
Connecticut	15,489	4,879	10,610	10,335	275	2,632	7,978	-----
Delaware	4,388	605	3,783	3,114	669	<sup>3</sup> 3,783	-----	-----
Dist. of Columbia	1,200	1,200	-----	-----	-----	-----	-----	-----
Florida	56,205	12,821	43,384	22,535	20,840	10,999	31,259	1,126
Georgia	94,679	12,086	82,593	32,828	49,765	13,526	69,035	32
Idaho	41,768	2,273	39,495	21,376	18,119	4,534	26,993	7,908
Illinois	122,967	19,112	103,855	91,643	12,212	10,464	<sup>4</sup> 93,301	-----
Indiana	98,007	12,161	85,846	77,258	8,588	9,753	76,093	-----
Iowa	112,168	11,188	100,980	80,684	20,296	8,780	92,200	-----
Kansas	133,712	8,281	125,431	57,684	67,747	9,469	115,950	12
Kentucky	63,130	3,401	59,720	39,027	20,702	16,905	42,557	267
Louisiana	46,770	6,730	40,040	26,468	13,572	<sup>3</sup> 14,056	25,984	-----
Maine	20,581	1,638	18,943	18,906	37	<sup>3</sup> 10,725	8,129	80
Maryland	19,914	2,759	17,155	15,664	1,491	4,559	12,577	19
Massachusetts	24,742	8,933	15,809	14,897	912	1,780	14,029	-----
Michigan	107,733	14,351	93,382	70,718	22,664	8,317	85,065	-----
Minnesota	122,726	12,391	110,335	89,951	20,384	11,565	<sup>4</sup> 97,343	1,427
Mississippi	65,613	4,105	61,508	42,837	18,671	7,443	53,036	1,029
Missouri	110,296	11,530	98,766	79,832	18,934	21,446	76,706	614
Montana	72,390	1,554	70,836	21,718	49,118	9,197	54,820	6,819
Nebraska	104,552	5,500	99,052	39,889	59,163	9,490	80,303	250
Nevada	31,473	636	30,837	7,189	23,648	5,859	24,078	-----
New Hampshire	13,675	1,289	12,386	9,374	3,012	3,660	8,566	130
New Jersey	29,007	11,711	17,296	13,969	3,327	1,972	15,324	-----
New Mexico	62,565	1,962	60,603	10,653	49,950	10,854	45,587	4,162
New York	103,837	17,692	86,145	86,112	33	12,094	73,132	19
North Carolina	76,420	8,702	67,718	54,661	13,057	<sup>3</sup> 66,441	-----	1,277
North Dakota	118,104	2,343	115,761	34,263	81,498	6,377	108,900	484
Ohio	98,508	16,343	82,162	80,244	1,918	16,002	66,160	-----
Oklahoma	99,378	7,293	92,085	36,666	55,410	9,995	81,746	344
Oregon	61,205	4,815	56,390	33,271	23,119	7,698	31,760	16,932
Pennsylvania	105,562	17,592	87,970	60,394	27,576	41,834	45,828	308
Rhode Island	4,118	2,348	1,770	1,645	125	672	1,098	-----
South Carolina	52,955	4,738	48,217	23,815	24,402	22,121	26,696	-----
South Dakota	91,706	2,307	89,399	36,470	52,929	6,533	81,751	1,115
Tennessee	70,065	5,040	65,025	57,577	7,448	7,880	56,462	683
Texas	226,270	29,438	196,832	98,896	97,936	44,976	151,856	-----
Utah	31,341	3,661	27,680	12,790	14,890	4,805	17,008	5,867
Vermont	13,794	821	12,973	10,332	2,641	<sup>1</sup> ,858	<sup>4</sup> 11,092	23
Virginia	54,827	5,274	49,553	46,920	2,633	<sup>3</sup> 47,939	520	1,094
Washington	59,111	6,620	52,491	37,168	15,323	6,059	39,455	6,977
West Virginia	36,300	2,975	33,325	20,094	13,231	<sup>3</sup> 31,134	1,677	514
Wisconsin	96,289	9,642	86,647	78,466	8,181	10,107	76,134	406
Wyoming	30,946	872	30,074	9,901	20,173	4,835	23,062	2,177

<sup>1</sup> Includes 9,707 miles of State park, forest, institutional, and other roads, rural and municipal, that are not part of State or local highway systems. Also includes 1,395 miles of toll roads.

<sup>2</sup> Comprises mileage of roads not forming a part of State or local highway systems.

<sup>3</sup> Includes mileage of county roads under State control in Alabama (4 counties), Delaware, North Carolina, Virginia (all but 2 counties), and West Virginia; 6,604 miles designated as farm-to-market system in Louisiana; and the State-aid system in Maine.

<sup>4</sup> Includes mileage of local roads designated as State aid in Illinois, 19,983 miles; Minnesota, 15,755 miles; and Vermont, 2,559 miles.

## No. 659.—MILEAGE AND COST OF FEDERAL-AID HIGHWAY SYSTEMS: 1917 TO 1955

[See also *Historical Statistics*, series K 189-191b]

YEAR	MILES OF HIGHWAY		COST (\$1,000) <sup>3</sup>		
	Total existent <sup>1</sup>	Completed during year <sup>2</sup>	Total	Federal funds	State funds
1917-1921		12,919	221,740	95,054	126,686
1925	178,797	11,001	220,921	100,030	120,891
1930	193,049	10,339	236,520	90,830	136,681
1935	214,000	12,811	242,420	218,112	24,307
1940	234,112	11,549	260,216	149,724	119,492
1945	232,772	3,035	101,037	76,485	24,552
1946	448,358	5,057	146,754	85,896	60,888
1947	583,106	15,473	421,617	223,542	197,975
1948	609,509	21,725	762,989	397,462	365,527
1949	626,393	19,875	829,300	425,466	403,834
1950	640,753	19,876	753,199	389,578	363,621
1951	651,826	17,060	771,708	389,564	382,144
1952	673,137	22,147	977,548	505,444	472,184
1953	694,677	21,136	1,077,733	558,913	518,820
1954	717,379	20,548	1,146,419	591,202	555,217
1955	741,824	22,571	1,287,364	665,913	621,451

<sup>1</sup> Total existing mileage of Federal-aid primary system through 1945; beginning 1946 includes secondary system. Data as of June 30.<sup>2</sup> Comprises construction and reconstruction mileage.<sup>3</sup> Represents actual expenditures of funds on calendar-year basis. Beginning 1935, includes money spent on public works and defense highways. Beginning 1940, includes secondary highways.Source: Department of Commerce, Bureau of Public Roads; annual report, *Highway Statistics*, and *Annual Report, 1955*.

## No. 660.—MILEAGE OF FEDERAL-AID HIGHWAY SYSTEMS, BY STATES AND OTHER AREAS: 1955

[In miles. As of June 30. For explanation, see text, p. 539]

STATE OR OTHER AREA	PRIMARY HIGH-WAY SYSTEM		SECONDARY HIGHWAY SYSTEM	STATE OR OTHER AREA	PRIMARY HIGH-WAY SYSTEM		SECONDARY HIGHWAY SYSTEM
	Total miles	National system of interstate highways <sup>1</sup>			Total miles	National system of interstate highways <sup>1</sup>	
<b>Total</b>	<b>234,148</b>	<b>37,682</b>	<b>507,676</b>	Nebraska	5,354	477	12,336
Alabama	5,177	904	13,488	Nevada	2,198	540	2,316
Arizona	2,495	1,181	3,394	New Hampshire	1,200	213	1,474
Arkansas	3,490	528	13,428	New Jersey	1,730	204	1,948
California	7,102	1,809	9,724	New Mexico	3,915	1,013	4,902
Colorado	4,075	661	3,777	New York	10,636	1,041	19,316
Connecticut	1,093	267	1,112	North Carolina	6,934	714	24,153
Delaware	536	26	1,283	North Dakota	3,289	517	11,629
District of Columbia	124	17	81	Ohio	7,606	1,231	16,720
Florida	4,327	1,136	10,727	Oklahoma	7,372	809	11,164
Georgia	7,422	1,104	12,853	Oregon	3,977	720	5,084
Idaho	3,108	655	4,194	Pennsylvania	7,117	1,364	13,270
Illinois	10,445	1,548	10,276	Rhode Island	470	47	376
Indiana	4,809	1,068	15,683	South Carolina	4,731	749	11,458
Iowa	9,737	697	33,072	South Dakota	4,349	520	12,337
Kansas	7,632	728	22,639	Tennessee	5,422	1,038	9,350
Kentucky	3,836	656	15,171	Texas	16,047	2,770	27,927
Louisiana	2,653	606	5,630	Utah	2,198	716	3,077
Maine	1,621	209	2,260	Vermont	1,249	343	1,787
Maryland	2,000	270	5,758	Virginia	4,653	908	17,407
Massachusetts	2,050	347	2,216	Washington	3,619	593	8,415
Michigan	6,525	985	20,772	West Virginia	2,341	221	11,070
Minnesota	7,631	856	19,580	Wisconsin	5,992	472	18,555
Mississippi	5,118	684	9,085	Wyoming	3,464	1,019	2,059
Missouri	8,247	1,075	17,883	Hawaii	538	-----	593
Montana	5,890	1,237	3,723	Puerto Rico	554	-----	1,045

<sup>1</sup> Present traveled way.Source: Department of Commerce, Bureau of Public Roads; *Annual Report, 1955*.

## NO. 661.—FEDERAL-AID HIGHWAY PROJECTS, BY STATES AND OTHER AREAS: 1955

**[Money figures in thousands of dollars.** As of June 30. Comprises projects financed from Federal-aid primary, secondary, urban, and interstate; prewar Federal-aid primary, secondary, and grade-crossing; Defense Highway Act; and 1950 access funds]

STATE OR OTHER AREA	COMPLETED DURING FISCAL YEAR			UNDER CONSTRUCTION			PLANS APPROVED—NOT UNDER CONSTRUCTION			Federal-aid funds available for future projects
	Total cost	Federal funds	Miles	Total cost	Federal funds	Miles	Total cost	Federal funds	Miles	
<b>Total</b>	<b>1,250,188</b>	<b>643,421</b>	<b>21,584.5</b>	<b>1,749,705</b>	<b>895,163</b>	<b>19,224.3</b>	<b>349,225</b>	<b>180,647</b>	<b>4,678.1</b>	<b>377,963</b>
<b>Continental U. S.</b>	<b>1,231,110</b>	<b>634,467</b>	<b>21,539.7</b>	<b>1,730,946</b>	<b>886,779</b>	<b>19,165.9</b>	<b>342,171</b>	<b>177,179</b>	<b>4,660.5</b>	<b>366,406</b>
New England	56,716	28,482	201.5	102,786	50,246	365.0	5,952	3,041	11.9	41,318
Maine	8,936	4,504	70.6	16,305	8,455	129.3	288	146	2.4	2,000
New Hampshire	6,823	2,981	28.3	8,811	4,475	49.8	9	8	-----	3,660
Vermont	6,380	3,215	39.1	8,828	4,530	86.7	282	230	0.4	3,394
Massachusetts	22,829	11,337	20.3	49,053	22,044	51.5	3,687	1,831	6.6	13,053
Rhode Island	5,422	2,713	30.9	11,338	5,082	36.9	185	93	-----	3,047
Connecticut	7,317	3,731	12.3	8,456	4,159	10.8	1,501	733	2.5	15,224
Middle Atlantic	168,814	82,440	576.4	321,387	153,387	551.4	73,102	35,838	147.8	51,063
New York	99,119	47,865	408.7	202,127	95,240	268.5	50,724	24,475	91.5	30,161
New Jersey	12,210	5,891	18.6	21,370	9,661	48.2	4,859	2,409	13.4	13,072
Pennsylvania	57,485	28,694	149.1	97,890	48,485	234.7	17,519	8,954	42.9	7,830
East North Central	236,252	118,030	1,984.1	299,190	151,939	2,050.4	60,400	31,189	344.5	41,662
Ohio	81,452	40,061	198.2	70,947	34,185	146.0	5,250	2,650	30.0	12,105
Indiana	26,159	13,473	163.4	53,876	27,966	180.8	14,696	7,375	76.3	11,409
Illinois	60,341	32,141	516.5	92,483	48,265	763.4	16,784	9,207	41.7	7,864
Michigan	45,901	21,115	605.2	42,809	21,601	417.9	13,107	6,674	128.7	3,347
Wisconsin	22,399	11,241	450.8	30,575	19,832	542.3	10,563	5,276	67.8	9,937
West North Central	166,966	85,550	7,808.9	208,257	110,054	861.5	48,427	24,900	2,275.6	40,957
Minnesota	30,684	15,974	617.0	31,054	16,217	1,022.7	12,776	6,501	999.0	6,695
Iowa	30,271	15,532	1,035.1	27,282	14,871	102.5	4,250	2,370	6,4	5,010
Missouri	30,814	15,103	916.7	80,553	41,850	1,456.4	4,053	2,364	21.6	8,554
North Dakota	15,124	7,518	1,302.6	9,086	4,707	10,874	5,384	782.9	3,326	-----
South Dakota	12,469	7,123	725.4	8,814	5,051	401.0	2,228	1,208	107.9	3,214
Nebraska	18,247	9,306	621.0	16,710	15,451	699.4	9,260	4,337	161.6	6,426
Kansas	29,407	14,902	1,600.2	23,857	11,897	883.6	4,986	2,547	136.2	7,733
South Atlantic	162,175	79,143	2,364.4	207,101	103,986	2,608.5	39,260	19,089	291.5	69,966
Delaware	5,380	2,708	35.6	6,410	3,552	25.7	2,056	1,034	4.9	3,916
Maryland	9,987	5,033	117.7	12,964	7,174	113.5	6,440	2,955	16.1	5,204
District of Columbia	8,075	4,170	4.3	12,752	6,038	2.9	275	137	0.6	5,346
Virginia	30,851	14,600	810.6	23,339	11,934	318.9	5,280	2,468	38.9	12,778
West Virginia	9,674	4,842	52.8	13,819	6,962	49.0	4,764	2,304	40,10	6,111
North Carolina	37,343	17,487	612.3	41,720	20,413	681.1	6,933	3,651	97.5	6,767
South Carolina	14,249	7,146	551.1	10,034	10,058	297.3	1,273	749	5.3	6,537
Georgia	25,089	12,167	420.0	51,869	24,888	931.2	6,303	2,720	27.1	14,196
Florida	21,527	10,900	360.0	25,186	12,908	288.9	5,935	2,981	61.1	4,608
East South Central	100,350	50,639	2,237.3	144,869	71,583	2,487.3	27,337	14,647	292.1	26,422
Kentucky	18,650	9,879	267.6	32,435	16,285	445.0	8,622	4,710	70.6	5,634
Tennessee	20,720	13,103	689.5	38,576	17,483	591.1	5,244	2,622	38.0	11,940
Alabama	31,280	15,709	562.8	45,425	23,165	752.8	4,881	2,501	48.1	6,590
Mississippi	23,700	11,888	717.4	28,433	14,660	698.4	8,590	4,725	135.4	2,250
West South Central	127,956	67,642	2,882.4	168,504	86,187	2,479.9	43,661	22,248	537.4	45,310
Arkansas	20,512	10,300	615.8	18,850	9,464	504.8	4,378	2,340	48.1	7,344
Louisiana	20,825	10,332	134.5	39,025	18,390	378.3	8,493	4,247	135.0	5,185
Oklahoma	17,420	9,331	339.3	25,809	13,674	365.0	17,583	9,030	239.5	14,677
Texas	69,199	37,680	1,792.8	84,820	44,650	1,281.8	13,206	6,632	114.8	18,104
Mountain	103,692	65,883	2,828.2	114,152	74,299	2,009.4	22,575	14,742	586.5	42,092
Montana	15,176	8,050	425.3	24,910	15,535	515.4	3,067	2,405	148.6	9,204
Idaho	16,016	9,043	370.3	15,277	9,735	242.0	5,085	3,337	112.8	1,996
Wyoming	8,097	5,136	227.5	13,505	8,670	292.6	3,167	2,069	65.6	980
Colorado	19,680	9,740	259.5	19,593	10,712	221.5	1,724	772	8.7	12,815
New Mexico	12,733	8,015	364.9	13,330	8,453	217.7	2,575	1,667	89.6	5,147
Arizona	12,587	8,880	323.7	8,782	6,465	170.7	3,323	2,345	53.2	1,879
Utah	10,455	7,864	278.2	10,679	7,970	210.1	2,578	2,018	103.5	753
Nevada	8,999	7,344	274.8	8,076	6,759	139.4	154	129	4.5	9,308
Pacific	108,190	56,659	1,006.5	164,701	85,099	752.5	21,457	11,484	173.2	7,619
Washington	17,981	9,680	342.0	23,851	12,828	175.7	3,392	1,985	134.3	3,036
Oregon	11,879	7,176	292.6	16,207	10,020	242.6	2,564	1,518	24.1	2,029
California	78,330	39,794	371.9	124,643	62,251	334.2	15,502	7,981	14.8	1,654
Alaska	63	63	6.5	5	5	-----	-----	-----	-----	-----
Hawaii	10,431	4,872	17.2	5,478	2,452	12.7	2,378	1,183	0.8	3,137
Puerto Rico	8,584	4,020	21.1	18,275	5,027	45.7	4,676	2,284	16.8	8,425

Source: Department of Commerce, Bureau of Public Roads; *Annual Report*, 1955.

No. 662.—STATE HIGHWAY SYSTEMS—EXISTING MILAGE, MILEAGE BUILT, FUNDS AVAILABLE, AND DISBURSEMENTS: 1930 TO 1954

[Figures cover continental U. S. and refer to calendar years for most States. See also *Historical Statistics*, series K 184-188, for data on total mileage built by State highway departments]

ITEM	1930	1940	1945	1950	1953	1954
Total mileage at end of year	1,324,498	551,766	573,234	608,468	639,538	647,663
Primary State-highway systems	1,324,498	329,472	338,310	363,213	376,902	379,063
Nonsurfaced roads	1,97,726	26,091	22,873	12,007	7,873	6,008
Surfaced roads	1,226,772	302,481	315,437	351,206	369,029	372,155
Low type <sup>1</sup>	1,142,659	180,091	182,786	168,554	169,990	168,764
High type <sup>2</sup>	184,113	122,390	132,651	182,652	199,039	203,391
Secondary roads	(3)	195,245	202,356	209,339	214,638	218,022
Municipal extensions of State-highway systems <sup>4</sup>	(3)	27,049	32,508	35,916	39,020	40,471
Other State roads <sup>5</sup>					8,978	9,707
Total mileage built during year by State-highway departments	635,277	32,594	15,278	55,487	52,886	55,488
Graded and drained	6,7813	2,207	283	3,364	2,241	2,448
Surfaced	62,464	30,857	14,995	52,123	50,645	53,040
State controlled	36,277	29,605	14,827	44,265	41,744	42,063
Graded and drained	7,813	1,423	250	1,754	1,264	386
High-type surface <sup>2</sup>	10,787	5,223	3,971	13,379	17,807	19,730
Low-type surface <sup>2</sup>	16,677	23,049	10,600	20,102	22,673	21,457
State-highway funds available <sup>7,8</sup>	\$1,000	1,423,104	2,037,606	2,242,572	5,068,196	7,302,408
Disbursements of State-highway funds <sup>7</sup>	do	1,330,545	1,678,009	1,299,381	3,561,513	4,884,072
					5,720,432	

<sup>1</sup> Includes secondary State systems and some municipal street mileage in State systems. Not comparable with subsequent years, since county road mileage had not yet been taken over by State highway departments.

<sup>2</sup> Through 1945, low type was distinguished from high type by quality of surfacing material used; for 1950 and 1954, also by rigidity of base; and for 1954, combined thickness of surface and base was an added consideration.

<sup>3</sup> Not available.

<sup>4</sup> Beginning 1940, includes connecting streets not under State control. Beginning 1950, excludes streets of this type in Kentucky, Maryland, Mississippi, and District of Columbia. May include the municipal portion of a State route entering a city or town.

<sup>5</sup> Mileage of State park, forest, institutional, toll, and other roads under State control.

<sup>6</sup> Represents State-controlled only.

<sup>7</sup> Includes funds transferred to or from local units and proceeds of highway-user imposts allotted by the State treasurer for (a) county and other local roads and streets, and (b) nonhighway purposes. See also tables 664 and 665.

<sup>8</sup> Includes accumulated reserves.

Source: Department of Commerce, Bureau of Public Roads; annual report, *Highway Statistics*.

No. 663.—STATE HIGHWAY FINANCES: 1920 TO 1954

[In thousands of dollars. See also *Historical Statistics*, series K 103-204]

YEAR	Miscel-lanous State income used for high-ways	Federal funds received for high-ways	ALLOCATION OF NET RECEIPTS FROM STATE IMPOSTS ON HIGHWAY USERS			DISBURSEMENTS FOR STATE-ADMINISTERED HIGHWAYS				State highway debt outstanding	
			Total net funds distributed	State highway	Local roads and streets	Non-highway	Total	State highway			
								Construction	Mainten-ance	Adminis-trative, high-way patrol, etc.	
1920--	154,986	61,906	98,672				320,507	240,340	58,468	21,699	
1925--	142,715	93,343	393,738	300,628	85,931	7,179	613,842	403,843	119,304	62,034	28,161
1930--	129,791	94,111	829,822	627,855	181,807	20,160	1,018,530	728,887	193,928	42,534	53,181
1935--	53,622	210,381	908,676	523,399	238,134	147,143	750,651	488,306	187,122	49,401	75,822
1940--	60,904	196,139	1,274,380	754,479	323,331	196,579	941,332	563,074	218,776	81,460	78,022
1945--	103,004	59,964	1,186,220	770,705	315,681	99,834	636,378	210,467	236,676	82,237	56,988
1950--	190,604	425,587	2,487,094	1,507,704	672,352	217,088	2,285,513	1,532,859	501,487	187,453	60,714
1951--	235,426	415,628	2,750,182	1,739,686	743,725	266,771	2,581,632	1,739,579	562,272	215,154	64,627
1952--	273,358	485,273	2,974,137	1,951,782	819,555	202,800	2,849,248	1,941,857	602,554	224,216	80,021
1953--	338,651	540,883	3,291,616	2,101,778	895,762	294,076	3,249,735	2,271,434	620,405	255,252	102,645
1954--	339,008	587,857	3,507,852	2,303,848	934,552	269,452	4,045,038	2,962,562	647,765	287,183	147,523

Source: Department of Commerce, Bureau of Public Roads; annual report, *Highway Statistics*.

## No. 664.—DISBURSEMENTS OF STATE HIGHWAY FUNDS, BY STATES: 1921 TO 1954

[In thousands of dollars. Comprises disbursements, whether from current revenues or proceeds of loans, for construction, maintenance, interest and principal payments on highway bonds, transfers to local units, and miscellaneous disbursements. Includes transactions by State toll authorities. Beginning 1935 covers calendar years; figures for earlier years for many States represent fiscal years]

DIVISION AND STATE	Year in which first State-aid law passed	1921	1930	1935	1940	1945	1950	1952	1953	1954
Cont. U. S.		444,413	1,330,545	1,257,838	1,678,009	1,299,381	3,561,513	4,247,781	4,884,672	5,720,432
New England		26,986	79,724	84,533	98,625	64,034	197,732	243,965	284,621	338,505
Maine	1901	7,379	17,669	11,918	13,550	10,169	24,380	35,472	60,705	58,105
New Hampshire	1903	2,446	9,815	6,412	8,386	6,035	13,523	18,582	19,590	25,450
Vermont	1898	1,001	9,013	6,040	8,365	3,975	9,954	13,093	15,055	16,425
Massachusetts	1892	7,864	23,500	38,295	37,635	21,428	97,931	118,011	114,536	163,498
Rhode Island	1902	2,298	3,633	3,972	8,011	6,350	14,249	17,612	18,848	18,707
Connecticut	1895	5,098	16,004	17,896	22,678	15,177	37,605	41,195	49,887	56,221
Middle Atlantic		104,917	261,664	274,840	384,572	230,853	771,149	735,437	1,065,151	1,287,755
New York	1898	39,427	108,692	176,992	198,960	112,894	303,634	304,204	521,639	630,371
New Jersey	1891	15,848	48,811	35,021	67,609	43,980	188,364	164,610	251,338	301,841
Pennsylvania	1903	49,642	104,161	62,827	128,103	74,179	279,161	266,623	292,144	349,543
E. N. Central		77,340	223,344	242,738	312,905	242,329	502,737	720,254	829,957	1,042,240
Ohio	1904	19,489	58,299	63,657	93,403	76,257	147,327	197,922	249,410	380,570
Indiana	1917	8,251	27,217	32,743	40,461	34,085	69,178	80,802	99,683	123,775
Illinois	1905	15,720	53,304	64,967	70,536	53,188	112,503	172,739	196,272	227,154
Michigan	1905	20,359	47,591	47,695	67,403	50,159	105,637	172,451	193,048	218,955
Wisconsin	1911	13,521	26,933	33,676	41,102	27,740	68,042	96,340	100,635	91,777
W. N. Central		50,490	187,230	132,318	148,681	109,097	324,919	427,218	424,133	446,839
Minnesota	1905	7,480	39,306	26,532	31,275	22,807	65,243	61,579	88,005	86,595
Iowa	1904	18,778	56,561	27,177	32,517	22,633	79,225	104,703	86,488	93,687
Missouri	1907	4,727	44,476	28,366	27,553	20,554	52,942	73,777	86,685	92,147
North Dakota	1900	1,511	5,523	5,069	7,355	6,105	21,636	26,805	25,316	23,558
South Dakota	1911	5,450	8,202	9,220	9,236	5,644	20,236	30,740	33,173	33,140
Nebraska	1911	5,544	16,056	16,230	20,117	15,802	36,077	42,184	37,893	48,236
Kansas	1911	6,991	17,016	18,815	20,628	15,562	49,560	57,430	66,613	60,476
South Atlantic		52,826	163,592	156,837	232,740	194,163	602,672	682,037	692,298	845,860
Delaware	1903	3,765	8,492	3,666	4,370	3,340	32,014	25,519	21,086	26,133
Maryland	1898	8,326	20,420	15,356	27,243	19,422	83,879	83,414	84,502	148,652
Dist. of Col.	1938	210	2,236	3,650	6,588	4,362	10,970	12,845	13,840	21,204
Virginia	1906	7,164	22,603	20,764	28,277	20,487	76,041	94,840	101,203	116,783
West Virginia	1909	1,877	23,518	20,480	25,835	26,878	50,928	62,487	103,313	111,948
North Carolina	1901	15,100	25,622	29,103	39,799	29,120	135,850	148,967	133,202	130,995
South Carolina	1917	4,095	22,938	14,327	22,804	21,609	45,988	53,776	56,723	59,198
Georgia	1908	9,966	17,390	22,447	38,803	24,214	73,547	72,254	73,101	87,588
Florida	1915	2,323	20,373	26,964	39,012	35,731	93,437	124,935	105,178	143,269
E. S. Central		17,705	107,250	74,189	118,474	99,980	236,649	275,053	297,041	343,276
Kentucky	1912	5,784	20,387	19,869	25,716	19,603	67,361	71,186	76,416	84,421
Tennessee	1915	7,054	55,790	21,239	34,031	31,705	78,615	82,142	80,652	99,406
Alabama	1911	1,265	19,813	18,420	27,723	25,813	48,807	62,059	74,869	86,969
Mississippi	1915	3,602	11,260	14,671	31,004	22,859	41,866	50,036	65,104	72,480
W. S. Central		39,663	161,527	120,604	151,120	128,398	367,157	447,178	459,438	475,981
Arkansas	1913	8,206	39,950	17,145	18,278	15,112	45,995	50,459	46,577	63,235
Louisiana	1910	5,347	29,570	21,100	20,662	21,702	70,616	82,600	78,339	90,132
Oklahoma	1911	7,395	27,476	20,780	23,506	24,222	72,735	101,115	102,464	86,677
Texas	1917	18,716	64,522	61,579	70,674	67,362	177,811	213,004	232,058	245,937
Mountain		30,021	55,720	59,721	73,634	49,616	162,558	201,119	213,384	242,541
Montana	1913	4,190	7,974	9,015	11,741	6,682	21,507	28,000	22,333	36,283
Idaho	1905	5,494	8,464	7,791	8,039	5,674	18,676	21,773	24,310	33,071
Wyoming	1911	3,701	3,052	5,719	6,272	3,318	14,103	17,001	18,602	19,757
Colorado	1909	4,892	11,043	11,726	14,694	11,671	37,785	42,462	49,242	50,725
New Mexico	1909	3,718	10,028	8,110	13,428	8,088	26,141	30,475	31,889	37,173
Arizona	1909	3,036	6,220	6,687	8,804	6,056	19,691	28,345	30,566	31,012
Utah	1909	3,399	5,315	6,053	6,342	6,222	15,099	22,207	24,101	21,275
Nevada	1911	1,591	2,724	4,620	4,254	1,905	9,496	10,856	12,281	13,245
Pacific		44,465	90,494	112,058	157,258	180,911	395,940	515,520	608,649	697,435
Washington	1905	10,340	16,081	20,639	39,925	28,602	77,524	94,543	108,406	116,163
Oregon	1913	18,930	18,554	17,486	18,385	14,234	49,023	74,855	78,608	84,722
California	1895	15,195	55,859	73,983	98,048	138,075	268,493	346,123	421,635	406,550

Source: Department of Commerce, Bureau of Public Roads; annual report, *Highway Statistics*.

## STATE HIGHWAY FUNDS

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## No. 665.—STATE HIGHWAY FUNDS AVAILABLE, BY SOURCE AND DISBURSEMENTS, BY PURPOSE, BY STATES: 1954

**In thousands of dollars.** Comprises receipts and disbursements of all State imposts on highway users, all other funds available to State highway departments, and State funds other than those of highway department which were reported as being applied to highway purposes. Includes transactions of interstate and intrastate toll authorities that are operated by State or quasi-State agencies. See also *Historical Statistics*, series K 193-203.

DIVISION AND STATE	FUNDS AVAILABLE					DISBURSEMENTS		
	Total	Motor-vehicle fees, motor-fuel and motor-carrier taxes	Federal funds	Income from issue of bonds, notes, etc.	All other sources <sup>1</sup>	Total <sup>2</sup>	For State-administered highways <sup>3</sup>	For county and local roads and streets <sup>3</sup>
		Capital outlay, roads and bridges <sup>4</sup>	Mainten-ance <sup>4</sup>	Other <sup>4</sup>				
Cont. U. S.-----	9,429,047	3,648,587	557,857	2,338,021	2,854,582	5,720,432	2,962,562	647,765 653,303 1,044,167
New England-----	779,424	173,145	27,092	422,094	157,093	338,505	187,753 53,643 52,620 27,132	
Maine-----	109,947	23,627	4,108	82,122	58,105	35,554	10,555 9,040 4,009 2,360	
New Hampshire-----	30,766	13,490	2,381	9,530	5,359	25,459	13,408 6,092 4,009 1,680	
Vermont-----	16,642	10,869	2,931	-----	2,842	16,425	5,168 4,346 1,393 5,225	
Massachusetts-----	428,215	71,605	12,481	304,296	30,833	163,498	102,152 17,812 27,958 9,597	
Rhode Island-----	29,757	14,236	2,308	7,074	6,139	18,797	5,350 3,278 2,342 905	
Connecticut-----	164,097	39,318	2,793	101,188	20,708	56,221	26,121 11,560 7,878 7,465	
Middle Atlantic-----	2,424,471	545,434	82,673	823,171	973,193	1,287,755	851,177 105,495 141,560 94,256	
New York-----	1,061,674	233,605	41,649	302,462	393,058	636,371	441,681 49,350 52,719 43,027	
New Jersey-----	619,370	107,675	22,107	182,093	310,375	301,841	101,728 16,769 34,230 19,887	
Pennsylvania-----	743,427	204,154	30,797	248,616	259,860	340,543	217,768 30,376 54,611 31,342	
E. N. Central-----	1,744,046	701,976	95,551	411,056	535,463	1,042,240	507,078 96,356 75,790 326,350	
Ohio-----	580,478	201,926	31,873	30,288	316,391	380,579	229,826 26,612 22,587 94,004	
Indiana-----	381,896	88,519	10,176	274,000	9,201	123,775	53,677 13,676 13,153 38,087	
Illinois-----	297,649	187,771	26,030	-----	83,848	227,154	97,386 20,753 20,503 78,020	
Michigan-----	361,555	149,281	14,169	106,428	91,707	218,955	92,742 23,906 15,975 80,396	
Wisconsin-----	122,438	74,479	13,303	-----	34,316	91,777	33,447 11,409 3,572 34,363	
W. N. Central-----	744,729	343,556	85,491	157,614	158,068	446,839	211,830 68,616 28,565 125,981	
Minnesota-----	141,709	75,647	14,875	-----	51,187	86,505	44,731 13,877 2,632 22,776	
Iowa-----	113,205	70,322	14,453	-----	19,520	93,687	31,970 9,179 3,235 47,227	
Missouri-----	131,187	64,505	18,375	1,739	46,508	92,147	60,699 15,711 11,744 2,023	
North Dakota-----	32,348	15,393	6,763	-----	10,192	23,558	10,624 3,746 1,251 7,438	
South Dakota-----	37,003	19,967	7,474	-----	9,652	33,140	16,105 7,160 1,265 8,210	
Nebraska-----	52,821	30,852	8,808	-----	4,071	45,236	16,476 7,784 2,623 20,431	
Kansas-----	236,276	48,870	14,653	155,875	16,878	99,476	31,225 11,159 5,915 17,876	
South Atlantic-----	1,345,717	536,204	72,665	381,421	355,427	845,860	381,112 130,903 173,989 95,852	
Delaware-----	43,155	9,437	2,988	8,060	22,670	26,133	9,673 3,070 10,673 14	
Maryland-----	323,749	62,584	5,012	205,155	50,998	148,652	56,803 6,918 54,656 28,395	
Dist. of Columbia-----	30,907	17,005	3,937	-----	9,965	21,204	----- 18,288	
Virginia-----	197,432	75,868	12,308	93,274	15,987	116,783	47,813 31,881 31,051 2,602	
West Virginia-----	139,686	37,351	6,017	40,900	55,418	111,948	67,631 25,335 17,913	
North Carolina-----	210,817	107,757	12,824	-----	90,226	130,995	64,405 28,742 25,794 5,719	
South Carolina-----	81,331	47,766	7,055	100	26,410	59,198	23,742 12,574 15,012 5,579	
Georgia-----	145,669	65,338	12,957	27,601	39,773	87,588	41,706 9,027 5,248 21,400	
Florida-----	172,971	113,098	9,572	6,331	43,970	143,269	69,339 13,356 13,642 13,856	
E. S. Central-----	463,252	239,166	51,928	55,584	116,384	343,276	135,927 37,360 34,979 116,545	
Kentucky-----	131,760	63,548	9,718	42,752	15,742	84,421	51,816 15,337 8,738 6,202	
Tennessee-----	128,612	77,233	12,916	6	38,457	99,406	26,098 7,716 10,620 42,228	
Alabama-----	101,994	53,732	17,982	-----	30,280	86,060	31,729 8,587 7,114 37,912	
Mississippi-----	100,896	44,653	11,312	13,026	31,905	72,480	26,284 5,720 8,507 30,213	
W. S. Central-----	722,829	375,334	55,076	81,878	210,541	475,981	228,353 66,148 50,999 77,042	
Arkansas-----	82,289	41,057	10,720	-----	30,512	53,235	23,662 8,380 11,194 8,071	
Louisiana-----	241,433	57,577	10,346	81,878	91,632	90,132	45,457 14,108 17,883 10,302	
Oklahoma-----	102,887	73,373	10,620	-----	18,804	86,677	29,141 10,721 6,332 29,065	
Texas-----	296,220	203,327	23,390	-----	69,503	245,987	180,093 32,939 15,590 20,004	
Mountain-----	276,786	160,282	44,591	2,389	49,524	242,541	127,076 36,962 28,657 40,524	
Montana-----	40,943	20,290	10,777	-----	9,876	36,283	17,194 5,763 9,581 2,978	
Idaho-----	33,517	17,664	9,892	-----	5,961	33,071	17,524 4,851 1,856 8,405	
Wyoming-----	27,137	11,776	7,918	-----	7,445	19,757	11,232 3,501 6,677 3,883	
Colorado-----	56,944	38,060	8,780	2,389	7,716	50,725	23,042 6,015 6,454 12,409	
New Mexico-----	42,431	25,142	9,125	-----	8,164	37,173	21,956 6,308 4,130 2,739	
Arizona-----	36,356	23,112	6,431	-----	6,813	31,012	16,102 4,073 2,740 6,777	
Utah-----	23,947	16,307	6,223	-----	1,417	21,275	12,360 4,047 1,525 2,796	
Nevada-----	15,511	7,931	5,447	-----	2,133	13,245	8,266 2,404 1,694 567	
Pacific-----	927,783	573,490	52,790	2,614	298,889	697,435	331,650 52,282 66,144 140,474	
Washington-----	158,050	80,283	10,316	2,614	64,837	116,163	46,325 14,455 12,232 25,985	
Oregon-----	111,427	54,271	10,042	-----	47,114	84,722	40,115 11,537 12,376 16,916	
California-----	658,306	438,936	32,432	-----	186,938	496,550	245,216 26,290 41,536 97,573	

<sup>1</sup> Balances from 1953, totaling \$2,515,484,000, and miscellaneous current revenues, totaling \$339,098,000.

<sup>2</sup> Includes disbursements not shown separately and not elsewhere included: For collection and administration of highway-user revenues, \$142,452,000; for nonhighway purposes, \$270,193,000.

<sup>3</sup> Expenditures on county roads under State control in Ala. (4 counties), Del., N. C., Va. (all except 2 counties), and W. Va. included with those for State-administered highways.

<sup>4</sup> Includes some administration, engineering, and miscellaneous disbursements.

<sup>5</sup> Disbursements for administration, engineering, and miscellaneous; State highway police and safety; bond interest; and bond retirement.

Source: Department of Commerce, Bureau of Public Roads; annual report, *Highway Statistics, 1954*.

**No. 666.—PUBLIC HIGHWAY DEBT—LONG-TERM HIGHWAY OBLIGATIONS OF STATE AND LOCAL GOVERNMENTS ISSUED, REDEEMED, AND OUTSTANDING: 1945 TO 1955**

[In millions of dollars. State data are for calendar year; local data are for varying fiscal years. Detail may not add to total because total excludes duplicated and intermittent obligations]

ITEM	1945	1946	1947	1948	1949	1950	1951	1952	1953	1954 <sup>1</sup>	1955 (proj.)
<b>Total debt issued<sup>2</sup></b>	49	161	308	476	533	655	792	1,104	1,328	2,718	1,587
State obligations	11	55	80	270	254	400	535	797	1,038	2,317	1,150
County and local rural obligations	22	49	107	83	98	90	79	100	106	80	127
Urban obligations	20	62	122	123	181	167	179	208	185	321	310
<b>Total debt redeemed<sup>3</sup></b>	258	261	258	266	261	316	349	339	347	378	432
State obligations	115	124	115	117	106	143	156	157	148	168	215
County and local rural obligations	87	78	78	79	81	82	82	83	85	90	92
Urban obligations	78	72	75	78	84	97	117	104	110	125	130
<b>Total debt outstanding</b>	<b>3,640</b>	<b>3,538</b>	<b>3,589</b>	<b>3,797</b>	<b>4,077</b>	<b>4,435</b>	<b>4,866</b>	<b>5,596</b>	<b>6,584</b>	<b>8,925</b>	<b>10,080</b>
State obligations	1,638	1,571	1,537	1,690	1,838	2,096	2,476	3,116	4,015	6,164	7,099
County and local rural obligations	869	837	866	870	888	872	868	893	914	904	939
Urban obligations	1,218	1,207	1,254	1,298	1,402	1,468	1,564	1,625	1,680	1,886	2,066

<sup>1</sup> Preliminary, except State obligations. <sup>2</sup> Excludes refunding issues.

<sup>3</sup> Excludes redemptions by refunding.

Source: Department of Commerce, Bureau of Public Roads; releases.

**No. 667.—PUBLIC ROAD FINANCES—FUNDS CONTRIBUTED AND DISBURSED FOR COUNTY AND LOCAL RURAL ROADS, AND CITY AND VILLAGE STREETS: 1930 TO 1954**

[In millions of dollars. Data are for varying fiscal years, as reported by individual States. Includes State disbursements. See also *Historical Statistics*, series K 205-224]

SOURCE OR PURPOSE	1930	1935	1940	1945	1950	1952	1953	1954 <sup>1</sup>
<b>APPROXIMATE FUNDS CONTRIBUTED</b>								
County and local rural roads, total	800	624	893	550	1,065	1,261	1,387	1,427
County and local rural revenue sources	500	235	243	263	409	478	527	560
Borrowings <sup>2</sup>	95	50	68	22	89	100	106	100
State revenues	196	217	273	268	528	633	691	702
Federal funds		122	300	7	39	50	63	65
<b>CITY AND VILLAGE STREETS, TOTAL</b>								
Revenue of—	911	490	596	401	910	1,102	1,175	1,364
Counties and local rural agencies	(6)	12	12	9	28	31	31	35
Urban places	787	335	347	315	559	669	734	770
Borrowings <sup>2</sup>	112	17	17	30	167	201	185	309
State highway-user imposts	12	23	53	47	154	199	225	250
Federal work-relief funds (mainly WPA)		103	167	—	—	2	2	2
Federal funds								
<b>DISBURSEMENTS</b>								
County and local rural roads, total	813	605	907	522	1,043	1,243	1,334	1,384
Capital outlay	297	207	455	82	332	456	513	523
Maintenance and administration	321	212	265	331	607	682	714	748
Debt retirement <sup>4</sup>	113	111	129	74	77	79	81	86
Interest	82	75	58	35	27	26	26	27
<b>CITY AND VILLAGE STREETS, TOTAL</b>								
799	461	597	408	897	1,036	1,124	1,187	
Capital outlay	478	223	344	59	357	403	443	477
Maintenance and administration	230	170	162	224	401	485	514	533
Debt retirement <sup>4</sup>	(3)	(3)	(3)	81	97	104	119	125
Interest	91	68	61	44	42	44	48	52

<sup>1</sup> Preliminary estimate. <sup>2</sup> Beginning 1945, excludes refunding issues.

<sup>3</sup> Not available.

<sup>4</sup> Beginning 1945, excludes redemptions by refunding.

Source: Department of Commerce, Bureau of Public Roads.

**No. 668.—MOTOR FUEL CONSUMPTION, BY USE: 1940 TO 1954**

[In millions of gallons. Excludes exports and Federal purchases for military use. Data obtained chiefly from reports of State authorities. See also *Historical Statistics*, series K 233-235 for data on total highway and non-highway usage]

ITEM	1940	1945	1948	1949	1950	1951	1952	1953	1954
<b>Total consumption<sup>1</sup></b>	<b>24,404</b>	<b>22,304</b>	<b>34,707</b>	<b>36,835</b>	<b>40,280</b>	<b>42,951</b>	<b>45,526</b>	<b>47,890</b>	<b>49,636</b>
Highway	22,001	19,149	30,461	32,431	35,653	38,128	40,584	42,732	44,366
Nonhighway	2,037	2,898	3,868	4,009	4,178	4,345	4,453	4,640	4,753
Private and commercial	23,324	21,576	33,616	35,600	39,033	41,639	44,156	46,451	48,109
Public	714	471	713	750	798	834	881	930	1,010

<sup>1</sup> Includes losses allowed for evaporation, handling, etc.

Source: Department of Commerce, Bureau of Public Roads; annual report, *Highway Statistics*.

## No. 669.—MOTOR VEHICLES—SUMMARY OF SELECTED ITEMS: 1949 TO 1955

ITEM	1949	1950	1951	1952	1953	1954	1955
<b>SALES, EXPORTS, AND SCRAPPAGE</b>							
Passenger car factory sales, total	1,000	5,119	6,666	5,338	4,321	6,117	5,559
4-door sedans	do	2,520	3,247	2,684	2,259	3,079	2,593
2-door sedans, coaches and coupes <sup>1</sup>	do	2,193	2,704	1,774	1,215	1,695	1,477
Business coupes	do	82	90	64	29	37	17
"Hard-top" coupes and sedans	do	10	267	487	540	842	955
Convertibles (except "hard-top")	do	216	208	143	100	159	156
Station wagons <sup>2</sup>	do	88	142	179	169	297	349
Chassis	do	10	9	17	9	8	13
Exports, total value <sup>3</sup>	\$1,000,000	842	794	1,306	1,124	1,082	1,156
Passenger cars	do	205	170	340	244	276	300
Trucks and buses	do	228	217	387	314	289	332
Rubber tires and tubes	do	67	47	80	90	72	71
Parts and accessories <sup>3</sup>	do	342	350	499	476	466	453
Vehicles scrapped, total	1,000	3,151	3,234	3,782	3,767	4,065	4,700
Passenger cars	do	2,616	2,591	3,141	3,176	3,474	4,000
Trucks and buses	do	535	643	641	591	591	700
<b>TIRES AND PARTS</b>							
Tires, passenger car:							
Production	1,000	65,140	78,598	65,546	74,341	81,431	76,794
Shipments	do	65,077	84,423	61,678	70,305	79,779	77,713
Original equipment	do	28,120	36,678	26,729	24,106	33,098	29,741
Replacement	do	36,440	47,103	34,236	45,458	45,874	47,044
Export	do	509	642	723	741	806	928
Inventory, year-end	do	8,904	3,050	6,973	11,251	13,043	12,217
Tires, truck and bus:							
Production	do	11,228	14,156	17,859	16,070	14,690	12,347
Shipments	do	11,440	15,164	16,764	15,041	14,889	12,528
Original equipment	do	3,456	4,671	5,424	5,378	4,838	3,591
Replacement	do	7,026	9,705	10,386	8,884	9,317	8,111
Export	do	958	788	954	779	734	826
Inventory, year-end	do	1,734	743	1,791	2,850	2,663	2,645
Domestic sales of replacement parts and accessories (wholesale value) <sup>4</sup>	\$1,000,000	1,810	1,882	2,399	2,184	1,892	1,889
Auto battery shipments for replacement, United States	1,000	10,383	24,442	22,219	22,453	23,614	23,140
<b>EMPLOYMENT AND PAY</b>							
Total employment in automotive manufacturing plants	number	759,600	825,200	844,500	790,200	928,900	780,600
Average employment, production workers	do	635,300	701,600	707,900	644,400	767,100	628,400
Total payroll, production workers	\$1,000,000	2,179	2,672	2,777	2,775	3,508	2,919
Average weekly earnings	dollars	65.97	73.25	75.45	82.82	87.95	89.32
Average weekly hours	hours	38.9	41.2	39.5	40.6	41.1	40.6
Average hourly earnings	dollars	1.696	1.778	1.912	2.04	2.14	2.20
<b>SPECIAL MOTOR-VEHICLE TAXES</b>							
Special motor-vehicle taxes, total	\$1,000,000	3,825	4,350	4,704	5,315	5,967	6,236
Federal excise	do	1,281	1,479	1,548	1,867	2,183	2,204
State gross registration receipts	do	834	948	1,054	1,134	1,250	1,334
State gasoline, net	do	1,475	1,667	1,813	1,968	2,155	2,306
Special city and county	do	93	107	122	147	158	160
Bridge, tunnel, ferry, road tolls	do	143	157	168	200	220	232
<b>TRAFFIC DEATHS</b>							
Traffic deaths, total <sup>7</sup>	number	31,701	34,763	36,996	37,794	38,300	36,000
Noncollision accidents	do	9,100	10,950	11,600	12,850	13,300	12,800
Collision accidents:							
With other motor vehicles	do	10,500	11,250	12,600	12,900	12,900	12,000
With pedestrians	do	8,800	9,100	9,200	8,600	8,600	7,900
With other vehicles or objects	do	3,298	3,490	3,560	3,461	3,509	3,300
Traffic death rates:							
Per 100,000 population	do	21.3	23.0	24.1	24.3	24.2	22.3
Per 10,000 motor vehicles	do	7.2	7.2	7.2	7.2	7.0	6.2
Per 100 million vehicle miles	do	7.5	7.6	7.5	7.4	7.1	6.4

<sup>1</sup> Except business coupes. <sup>2</sup> Excludes station wagons on commercial vehicle chassis.<sup>3</sup> Includes used passenger cars and trucks, trailers, parts for assembly, garage equipment. <sup>4</sup> Preliminary.<sup>5</sup> Not available. <sup>6</sup> Government purchases not included. Estimates based on Federal excise tax receipts.<sup>7</sup> Totals do not equal the sum of the various types because the estimates were generally made only to the nearest 10 deaths, and to the nearest 50 deaths for certain types.Source: Automobile Manufacturers Association, Detroit, Mich.; *Automobile Facts and Figures*.

## No. 670.—MOTOR-VEHICLE TRAVEL, BY TYPE OF VEHICLE AND CLASS OF ROAD: 1940 TO 1954

In millions of vehicle-miles, except averages. Estimates for total United States travel based on automatic traffic recorder data from 48 States]

ITEM	1940	1945	1949	1950	1951	1952	1953	1954
Total travel	302,188	250,173	424,461	458,246	491,093	513,581	544,433	560,857
Rural	152,195	120,012	219,097	239,998	268,422	289,463	308,375	317,218
Urban	149,993	130,161	205,364	218,248	222,671	224,118	236,058	243,639
TYPE OF VEHICLE								
Passenger vehicles	252,257	204,232	346,730	367,694	396,249	414,521	439,800	455,013
Rural	121,088	92,831	171,044	183,223	207,579	224,534	240,107	248,844
Urban	130,269	111,401	175,686	184,476	188,670	189,987	199,754	206,169
Passenger cars (incl. taxicabs)	249,600	200,398	342,478	363,613	392,131	410,187	435,351	450,605
Rural	120,540	90,926	168,897	181,095	205,375	222,064	237,567	246,300
Urban	129,060	109,472	173,581	182,518	186,756	188,123	197,784	204,305
All buses	2,657	3,834	4,252	4,081	4,118	4,334	4,449	4,408
Rural	1,448	1,905	2,147	2,123	2,204	2,470	2,479	2,544
Urban	1,209	1,929	2,105	1,968	1,914	1,864	1,970	1,864
Commercial buses	1,944	3,192	3,500	3,271	3,203	3,104	3,311	3,196
Rural	808	1,328	1,470	1,394	1,381	1,444	1,455	1,453
Urban	1,136	1,884	2,080	1,877	1,822	1,750	1,855	1,743
School and nonrevenue buses	713	642	752	810	915	1,140	1,138	1,212
Rural	640	577	677	729	823	1,026	1,024	1,091
Urban	73	65	75	81	92	114	114	121
Trucks and combinations	49,931	45,941	77,731	90,552	94,844	99,060	104,633	105,844
Rural	30,207	27,181	48,053	56,780	60,843	64,929	68,329	68,374
Urban	19,724	18,760	29,678	33,772	34,001	34,131	36,304	37,470
Average miles per vehicle:								
Passenger vehicles	9,129	7,870	9,468	9,078	9,208	9,442	9,417	9,354
Passenger cars (incl. taxicabs)	9,080	7,771	9,401	9,020	9,154	9,378	9,370	9,308
All buses	18,580	23,521	22,326	20,910	20,820	21,062	18,234	18,918
Commercial buses	36,000	38,434	38,462	36,500	35,198	37,508	32,782	38,506
School and nonrevenue buses	8,011	8,025	7,596	7,775	8,551	9,441	7,958	8,080
Trucks and combinations	10,626	9,270	9,915	10,776	10,790	10,940	10,927	10,883
CLASS OF ROAD								
Rural roads	152,195	120,012	219,097	239,998	268,422	289,463	308,375	317,218
Eastern regions	63,827	37,190	70,362	75,961	89,775	97,304	101,565	104,933
Central regions	75,007	61,217	110,201	121,667	132,094	140,583	150,797	154,289
Western regions	23,301	21,605	38,534	42,370	46,553	51,576	56,013	57,996
Main rural roads	109,861	85,021	159,811	174,350	189,650	203,101	213,604	217,059
Local rural roads	42,334	34,091	59,286	65,648	78,772	86,362	94,771	100,159
Urban streets	149,993	130,161	205,364	218,248	222,671	224,118	236,058	243,639

Source: Department of Commerce, Bureau of Public Roads; monthly releases.

## No. 671.—MOTOR VEHICLES—FACTORY SALES AND REGISTRATIONS: 1900 TO 1955

[See also *Historical Statistics*, series K 225-232]

YEAR	FACTORY SALES						REGISTRATIONS (1,000)		
	Number (1,000)			Wholesale value <sup>2</sup> (\$1,000)			Total (excl. publicly owned)	Passen- ger cars and taxis <sup>3</sup>	Motor- trucks and buses <sup>3</sup>
	Total	Passen- ger cars	Motor- trucks <sup>1</sup>	Total	Passen- ger cars	Motor- trucks <sup>1</sup>			
1900	4	4	—	4,899	4,899	—	8	8	—
1910	187	181	6	225,000	215,340	9,660	468	458	10
1920	2,227	1,906	322	2,232,420	1,809,171	423,249	9,239	8,131	1,108
1930	3,363	2,787	575	2,034,835	1,644,083	390,752	26,532	22,973	4,663
1940	4,472	3,717	755	2,938,474	2,370,654	567,820	32,035	27,372	4,663
1945	725	70	656	1,239,210	57,255	1,181,956	30,638	25,691	4,947
1950	8,003	6,666	1,337	10,175,885	8,408,137	1,701,748	48,567	40,185	8,332
1951	6,765	5,338	1,427	9,565,134	7,241,275	2,323,859	51,291	42,525	8,706
1952	5,530	4,321	1,218	8,774,903	6,455,114	2,319,789	52,616	43,654	8,962
1953	7,323	6,117	1,206	11,091,640	9,002,580	2,080,060	55,598	46,289	9,304
1954	6,601	5,559	1,042	9,878,113	8,218,094	1,560,019	57,876	48,324	9,552
1955	9,169	7,920	1,249	14,400,000	12,350,000	2,050,000	62,020	51,989	10,031

<sup>1</sup> Includes buses. A substantial part of the trucks and buses reported comprises chassis without body; hence excludes the value of bodies for these chassis. Includes military trucks; total sales for the period Sept. 1, 1939, through 1946, amounted to 2,675,000, valued at \$5,257,588,000. Production for the period Jan. 1, 1940, through 1946 was 2,601,000.

<sup>2</sup> Beginning 1937, includes value of standard equipment.

<sup>3</sup> Prior to 1925, buses included with passenger cars. Beginning 1950, motortrucks exclude farm trucks registered at a nominal fee in 5 States. <sup>4</sup> Partly estimated.

Source: Factory sales—Automobile Manufacturers Association, Detroit, Mich.; *Automobile Facts and Figures*. Registrations—Department of Commerce, Bureau of Public Roads; annual report, *Highway Statistics*.

## No. 672.—MOTOR-VEHICLE REGISTRATIONS (COMBINED FIGURES FOR PASSENGER CARS, BUSES, AND MOTOR TRUCKS), BY STATES: 1915 TO 1955

[In thousands. Excludes publicly owned vehicles. For uniformity, figures have been adjusted to a calendar-year basis as registration years in States differ. Figures represent net numbers where possible, excluding re-registrations and non-resident registrations.]

DIVISION AND STATE	1915	1920	1925	1930	1935	1940	1945	1950	1954	1955
Continental U. S.—	2,491	9,239	19,941	26,532	26,230	32,035	30,638	48,567	57,876	62,020
New England—	206	573	1,281	1,699	1,682	2,020	1,967	2,784	3,244	3,409
Maine—	22	63	140	186	181	206	207	272	302	318
New Hampshire—	13	35	81	112	117	135	128	160	197	208
Vermont—	11	32	70	87	82	94	90	119	130	135
Massachusetts—	103	274	637	846	786	904	859	1,266	1,464	1,530
Rhode Island—	16	50	102	137	149	187	178	249	292	305
Connecticut—	41	119	251	331	387	494	505	709	850	913
Middle Atlantic—	497	1,474	3,537	4,921	4,964	5,976	5,311	8,235	9,773	10,338
New York—	255	676	1,626	2,308	2,331	2,743	2,330	3,693	4,345	4,592
New Jersey—	82	228	581	863	888	1,087	1,020	1,564	1,909	2,041
Pennsylvania—	160	570	1,330	1,760	1,745	2,146	1,661	2,978	3,619	3,705
East North Central—	667	2,229	4,917	6,383	6,085	7,298	6,884	10,419	12,141	12,938
Ohio—	181	621	1,346	1,759	1,715	1,919	1,905	2,768	3,268	3,492
Indiana—	97	333	725	875	851	1,000	984	1,424	1,670	1,750
Illinois—	181	509	1,263	1,638	1,526	1,926	1,721	2,632	3,064	3,244
Michigan—	115	413	989	1,328	1,239	1,552	1,454	2,409	2,820	3,086
Wisconsin—	93	293	594	783	754	901	820	1,186	1,319	1,367
West North Central—	500	1,782	2,942	3,652	3,494	3,960	3,663	5,437	6,073	6,328
Minnesota—	93	324	570	733	727	871	750	1,158	1,294	1,351
Iowa—	145	437	659	778	699	794	693	1,060	1,131	1,182
Missouri—	76	297	604	762	766	922	854	1,252	1,422	1,478
North Dakota—	25	91	145	183	164	182	181	273	297	305
South Dakota—	29	120	168	205	179	196	179	287	310	321
Nebraska—	59	219	339	426	406	412	406	563	630	655
Kansas—	73	294	457	595	553	683	600	844	989	1,034
South Atlantic—	161	806	1,920	2,518	2,657	3,408	3,453	5,822	7,330	8,045
Delaware—	5	18	40	56	57	72	68	107	138	152
Maryland—	31	103	234	322	346	444	459	679	864	931
District of Columbia—	19	34	103	157	171	162	111	191	191	192
Virginia—	21	115	283	376	386	500	548	906	1,137	1,226
West Virginia—	13	81	218	266	248	303	284	475	505	544
North Carolina—	21	141	340	453	468	592	606	1,035	1,278	1,410
South Carolina—	15	94	168	218	236	337	336	570	706	768
Georgia—	25	146	248	342	394	503	523	888	1,121	1,225
Florida—	11	74	286	328	356	495	518	971	1,390	1,597
East South Central—	68	358	879	1,215	1,129	1,513	1,517	2,768	3,526	3,827
Kentucky—	20	113	262	331	346	464	435	774	948	1,028
Tennessee—	26	102	245	368	352	450	460	842	1,101	1,151
Alabama—	12	75	195	279	245	340	359	675	902	1,027
Mississippi—	10	68	177	287	186	289	283	477	576	626
West South Central—	84	773	1,794	2,411	2,360	2,891	2,767	4,918	5,809	6,347
Arkansas—	8	59	184	220	207	267	275	471	538	577
Louisiana—	11	73	207	275	269	365	404	600	864	941
Oklahoma—	25	213	424	550	502	575	505	819	949	1,010
Texas—	40	428	979	1,366	1,382	1,694	1,583	2,929	3,458	3,818
Mountain—	81	371	677	964	959	1,239	1,193	2,039	2,542	2,750
Montana—	15	61	95	135	150	191	157	259	308	330
Idaho—	7	51	82	119	118	163	161	267	309	332
Wyoming—	4	24	48	62	70	86	82	142	165	170
Colorado—	29	129	240	309	285	352	342	556	671	725
New Mexico—	7	18	49	84	92	125	118	233	304	334
Arizona—	8	35	68	111	103	138	143	264	371	407
Utah—	9	43	74	114	106	140	154	243	302	330
Nevada—	2	10	21	30	35	44	46	75	112	120
Pacific—	227	873	1,994	2,739	2,900	3,730	3,883	6,145	7,437	8,039
Washington—	39	174	329	446	454	502	614	903	1,061	1,137
Oregon—	24	115	217	262	294	394	414	678	749	791
California—	164	584	1,448	2,041	2,152	2,774	2,855	4,564	5,627	6,111

Source: Department of Commerce, Bureau of Public Roads; annual report, *Highway Statistics*.

## ROADS AND MOTOR VEHICLES

No. 673.—MOTOR-VEHICLE REGISTRATIONS AND REVENUES, BY STATES: 1954

DIVISION AND STATE	MOTOR VEHICLES REGISTERED			Trailers registered (including official) <sup>1</sup>	Motorcycles registered (including official) <sup>1</sup>	RECEIPTS FROM MOTOR-VEHICLE ADMINISTRATION (\$1,000)			
	Total	Private and commercial				Total <sup>3</sup>	Registration fees <sup>4</sup>		
		Automobiles (incl. taxicabs)	Trucks and buses			Total <sup>3</sup>	Registration fees <sup>4</sup>		
Continental U. S.	58,539,863	48,323,909	9,551,713	714,241	3,004,067	417,496	1,334,140		
New England	3,280,473	2,819,944	424,011	36,518	166,845	14,011	55,916		
Maine	306,002	236,901	56,64,724	4,377	25,088	1,403	7,500		
New Hampshire	201,967	162,568	34,853	4,546	13,518	1,542	5,285		
Vermont	131,287	0 115,510	0 14,422	1,355	7,828	772	5,261		
Massachusetts	1,479,889	1,289,320	174,673	15,896	78,560	4,457	16,744		
Rhode Island	294,072	256,407	35,144	2,461	11,004	1,737	6,076		
Connecticut	867,250	759,178	100,195	7,883	30,247	4,010	14,420		
Middle Atlantic	9,874,933	8,568,181	1,204,599	102,153	274,816	52,578	239,571		
New York	4,392,875	3,879,564	465,076	48,235	128,796	19,746	110,105		
New Jersey	1,928,077	1,677,717	231,646	18,714	36,905	9,515	53,763		
Pennsylvania	3,553,981	3,010,900	507,877	35,204	109,115	23,317	66,703		
East North Central	12,255,224	10,531,160	1,610,148	113,976	720,294	94,695	275,469		
Ohio	3,300,486	2,884,319	384,041	32,126	209,035	25,781	82,423		
Indiana	1,682,430	1,387,805	282,473	12,152	138,989	17,029	31,376		
Illinois	3,087,792	2,687,784	376,107	23,901	80,479	22,875	70,085		
Michigan	2,847,745	2,478,726	341,437	27,582	270,111	19,037	55,509		
Wisconsin	1,336,771	1,092,466	226,090	18,215	21,680	9,283	35,115		
West North Central	6,136,822	4,798,783	1,274,496	63,543	433,705	53,717	138,107		
Minnesota	1,306,491	1,065,716	228,308	12,467	121,000	9,776	30,334		
Iowa	1,143,540	924,066	206,752	12,722	113,636	9,248	38,210		
Missouri	1,433,878	1,137,469	285,059	11,350	84,370	6,997	27,144		
North Dakota	209,685	202,589	93,965	3,131	3,310	920	7,189		
South Dakota	314,636	228,624	81,688	4,324	34,887	1,580	8,948		
Nebraska	636,990	454,205	145,870	6,825	58,769	4,072	9,690		
Kansas	1,001,602	756,024	232,854	12,724	17,733	21,115	16,592		
South Atlantic	7,437,999	6,029,362	1,300,560	108,077	354,660	56,050	143,986		
Delaware	139,726	110,105	27,908	1,713	7,347	693	3,502		
Maryland	871,005	738,359	125,740	6,906	21,974	4,841	23,165		
District of Columbia	195,563	170,561	20,019	7,4,983	1,913	600	5,324		
Virginia	1,153,113	936,265	201,127	15,721	40,408	9,847	19,276		
West Virginia	513,409	393,997	11,372	8,040	14,249	2,886	16,560		
North Carolina	1,304,252	1,027,881	249,856	26,515	89,695	7,970	27,190		
South Carolina	719,706	578,644	127,080	13,982	12,889	5,007	7,569		
Georgia	1,133,528	892,794	228,076	12,658	41,153	7,392	7,060		
Florida	1,407,697	1,180,756	209,382	17,559	119,032	16,805	34,241		
East South Central	3,575,709	2,757,227	769,074	49,408	62,781	19,879	50,573		
Kentucky	957,596	749,516	198,113	9,967	8 19	5,487	16,809		
Tennessee	1,118,185	886,552	214,824	16,809	9,703	5,784	15,967		
Alabama	915,308	718,339	183,347	13,712	16,199	6,318	8,713		
Mississippi	584,580	402,820	172,790	8,920	36,860	2,290	9,084		
West South Central	5,888,441	4,494,208	1,314,859	79,774	274,433	43,878	137,689		
Arkansas	545,019	366,363	171,622	7,034	30,348	2,210	10,870		
Louisiana	873,800	681,485	182,703	9,612	44,657	5,192	10,684		
Oklahoma	963,423	707,099	241,568	14,756	16,351	8,303	27,575		
Texas	3,506,599	2,739,261	718,966	48,372	183,077	28,173	88,560		
Mountain	2,591,013	1,917,526	624,778	48,709	171,434	18,247	47,941		
Montana	314,329	212,479	95,469	6,381	20,938	1,154	6,505		
Idaho	314,823	224,671	84,567	5,685	39,980	2,013	5,231		
Wyoming	168,487	114,925	49,812	3,750	16,272	860	3,774		
Colorado	682,325	521,654	149,627	11,044	34,028	4,441	10,342		
New Mexico	309,517	225,563	78,329	5,625	13,331	3,443	7,980		
Arizona	379,704	288,565	82,957	8,182	32,617	3,616	7,415		
Utah	306,646	242,947	58,576	5,123	4,421	1,380	3,904		
Nevada	115,182	86,722	25,441	3,019	8,947	1,340	931		
Pacific	7,548,849	6,407,578	1,029,188	112,083	545,099	64,531	241,949		
Washington	1,085,158	875,423	185,822	23,913	69,383	6,761	31,372		
Oregon	764,849	675,060	73,575	16,214	25,162	5,527	23,826		
California	5,698,842	4,857,095	769,791	71,956	450,554	52,243	186,751		

<sup>1</sup> Excludes vehicles owned by military services.<sup>2</sup> As reported. State registration requirements differ widely.<sup>3</sup> Comprises registration fees, certificates of title, transfer or registration fees, permits, fines, etc.; excludes motor-fuel and motor-carrier taxes; for California, includes \$77,700,849 vehicle license fees and for Washington, \$13,940,194 motor-vehicle excise taxes.<sup>4</sup> Comprises fees for registration of automobiles (including taxicabs), buses, trucks and tractor trucks, trailers, and motorcycles.<sup>5</sup> Commercial full trailers included with trucks.<sup>6</sup> In Vermont, trucks under 1,500 pounds capacity, and in Oregon, trucks with gross weight of 6,000 pounds or less, included with automobiles; in most States, similar light trucks comprise half or more of all trucks registered.<sup>7</sup> Includes 1,635 automobiles of the diplomatic corps.<sup>8</sup> Represents publicly owned only. Heavy semitrailers registered with tractors (as a unit). Automobile trailers not required to register.

## No. 674.—AUTOMOBILE OWNERSHIP, AGE, AND FINANCING: 1948 TO 1955

ITEM		1948	1949	1950	1951	1952	1953	1954	1955
<b>AUTOMOBILE OWNERSHIP AND AGE</b>									
Total number of families in U. S. <sup>1</sup> .....	millions	42.7	44.1	45.7	46.3	47.2	48.0	48.5	49.0
Total owning automobiles.....	percent	54	56	60	65	65	65	70	71
Total number of spending units in U. S. <sup>1</sup> .....	millions	48.8	50.8	52.6	52.4	53.0	53.9	54.0	54.0
Total owning automobiles.....	percent	50	51	55	60	60	61	66	67
Automobiles owned, by age:									
1 year old or less.....	do		13	17	17	14	11	13	12
2 to 3 years old.....	do		15	19	22	30	31	23	22
4 to 7 years old.....	do		4	6	14	20	30	40	43
7 years old or more.....	do		68	58	47	36	28	24	23
<b>METHOD OF FINANCING BY PURCHASERS<sup>2</sup></b>									
All passenger-car buyers.....	percent	100	100	100	100	100	100	100	100
Full cash (including trade-in allowance).....	do	59	50	47	44	35	38	37	
Installment credit and other borrowing <sup>3</sup> .....	do	39	49	52	55	63	61	62	
Method not ascertained.....	do	2	1	1	1	2	1	1	
New-passenger-car buyers.....	do	100	100	100	100	100	100	100	100
Full cash (including trade-in allowance).....	do	66	56	54	52	41	40	38	(6)
Installment credit and other borrowing <sup>3</sup> .....	do	33	43	46	47	57	59	62	
Method not ascertained.....	do	1	1	(4)	1	2	1	(4)	
Used-passenger-car buyers.....	do	100	100	100	100	100	100	100	100
Full cash (including trade-in allowance).....	do	55	47	41	39	33	37	36	
Installment credit and other borrowing <sup>3</sup> .....	do	42	52	57	60	65	62	63	
Method not ascertained.....	do	3	1	2	1	2	1	1	

<sup>1</sup> "Families" consist of all persons living in the same dwelling and related by blood, marriage, or adoption. "Spending units" consist of all persons living in the same dwelling and related by blood, marriage, or adoption, who pooled their income for major items of expense; a spending unit may consist of only one person. Many families contain 2 or more spending units.

<sup>2</sup> Based on spending units that bought cars during year and still owned them at end of year.

<sup>3</sup> In the surveys for 1949 and later years, a question was asked specifically in regard to other borrowing. This question was not asked in previous surveys.   <sup>4</sup> Less than 0.05 percent.   <sup>5</sup> Not available.

Source: Board of Governors of the Federal Reserve System. Based on sample data from Surveys of Consumer Finances, conducted by Survey Research Center of University of Michigan for Board of Governors. Data appear periodically in *Federal Reserve Bulletin*.

## No. 675.—AUTOMOBILE INSURANCE—PREMIUMS WRITTEN AND LOSSES PAID, BY TYPE: 1946 TO 1954

[In millions of dollars. 1946 to 1952, net basis; beginning 1953, direct writing basis]

YEAR	TOTAL INSURANCE			LIABILITY			PROPERTY DAMAGE <sup>1</sup>			PHYSICAL DAMAGE <sup>2</sup>		
	Net premiums written	Losses paid	Percent losses paid of premiums written	Net premiums written	Losses paid	Percent losses paid of premiums written	Net premiums written	Losses paid	Percent losses paid of premiums written	Net premiums written	Losses paid	Percent losses paid of premiums written
1946	1,260	582	46.6	500	189	37.7	198	107	55.1	557	287	51.5
1947	1,657	673	40.6	636	235	36.9	289	138	37.9	732	300	41.0
1948	2,019	802	39.7	744	286	38.4	366	171	46.9	910	345	37.9
1949	2,322	901	38.7	870	343	39.0	453	205	45.3	999	353	41.0
1950	2,625	1,069	40.7	981	396	42.5	482	231	47.9	1,212	442	36.5
1951	2,995	1,406	47.0	1,126	493	43.8	575	313	54.5	1,294	600	46.3
1952	3,608	1,646	45.6	1,332	569	42.7	715	369	51.5	1,561	708	45.4
1953	4,165	1,810	43.5	1,562	661	42.3	838	374	44.9	1,770	775	43.8
1954	4,175	1,869	44.8	1,642	746	45.4	877	387	44.1	1,656	736	44.4

<sup>1</sup> Refers to insurance covering real property against damage by motor vehicles.

<sup>2</sup> Refers to insurance covering auto fire, auto theft, auto collision, and auto comprehensive.

Source: The Spectator, Philadelphia, Pa.; *Insurance Yearbook*, Fire and Casualty Volume; and beginning 1953, Insurance by States Volume.

## No. 676.—SPEED OF MOTOR VEHICLES: 1945 TO 1955

[Data based on actual speed of each vehicle recorded on tangent sections of main rural highways during off-peak hours]

ITEM	1945 <sup>1</sup>	1946	1947	1948	1949	1950	1951	1952	1953	1954	1955
Number of States reporting	26	19	16	24	26	27	25	29	26	26	32
Number of vehicles recorded	96	158	132	164	223	280	273	341	241	236	395
Average speed, all vehicles m. p. h.	44.0	45.2	46.9	47.7	47.6	47.6	48.9	49.5	49.7	49.7	50.7
Passenger cars	45.0	46.1	48.1	48.8	48.7	48.7	50.1	50.8	51.1	51.1	52.1
Trucks	39.8	40.2	42.5	43.1	43.5	43.0	44.4	45.0	44.9	45.2	45.8
Buses	45.5	47.8	48.4	50.0	50.3	49.8	51.2	52.1	51.5	51.8	52.6
Vehicles exceeding—											
35 m. p. h. percent	84	87	90	92	92	91	93	95	96	96	96
40 m. p. h. do	64	68	75	77	78	77	82	84	85	86	87
45 m. p. h. do	42	45	56	59	60	58	63	68	69	69	73
50 m. p. h. do	24	29	34	36	38	37	42	45	47	46	51
55 m. p. h. do	11	15	18	20	21	20	24	26	27	26	31
60 m. p. h. do	5	7	8	9	9	8	11	12	13	12	15

<sup>1</sup> August 15 to December 31.

Source: Department of Commerce, Bureau of Public Roads.

## No. 677.—MOTOR-VEHICLE ACCIDENT DEATHS, BY PLACE OF DEATH AND PLACE OF RESIDENCE: 1953

STATE	By place of death	By place of residence	STATE	By place of death	By place of residence	STATE	By place of death	By place of residence
United States	37,955	37,955	Kentucky	914	827	North Dakota	169	178
Alabama	849	870	Louisiana	705	691	Ohio	2,004	2,113
Arizona	411	354	Maine	190	202	Oklahoma	534	581
Arkansas	456	457	Maryland	516	494	Oregon	423	416
California	3,475	3,518	Massachusetts	538	589	Pennsylvania	1,780	1,863
Colorado	360	347	Michigan	1,928	2,035	Rhode Island	75	83
Connecticut	299	301	Minnesota	665	693	South Carolina	739	706
Delaware	116	105	Mississippi	553	540	South Dakota	186	192
Dist. of Columbia	100	134	Missouri	1,051	1,067	Tennessee	886	837
Florida	966	901	Montana	253	233	Texas	2,417	2,471
Georgia	952	943	Nebraska	349	340	Utah	226	205
Idaho	205	198	Nevada	161	117	Vermont	77	66
Illinois	2,082	2,227	New Hampshire	101	92	Virginia	909	879
Indiana	1,318	1,244	New Jersey	816	780	Washington	536	544
Iowa	603	601	New Mexico	427	315	West Virginia	457	450
Kansas	590	557	New York	2,233	2,403	Wisconsin	906	900
			North Carolina	1,184	1,161	Wyoming	160	126

Source: Department of Health, Education, and Welfare, Public Health Service, National Office of Vital Statistics; annual report, *Vital Statistics of the United States*.

## No. 678.—MOTOR-VEHICLE ACCIDENT DEATHS BY AGE, COLOR, AND SEX: 1953

AGE	TOTAL			WHITE			NONWHITE		
	Both sexes	Male	Female	Both sexes	Male	Female	Both sexes	Male	Female
All ages	37,955	28,562	9,393	33,372	25,012	8,360	4,583	3,550	1,033
Under 1 year	332	192	140	281	167	114	51	25	26
1 to 4 years	1,687	1,009	678	1,436	848	588	251	161	90
5 to 9 years	1,362	885	477	1,172	764	408	190	121	69
10 to 14 years	1,006	691	315	873	595	278	133	96	37
15 to 19 years	3,054	2,774	880	3,334	2,535	799	320	239	81
20 to 24 years	4,515	3,743	772	4,014	3,341	673	501	402	99
25 to 34 years	6,441	5,253	1,188	5,468	4,465	1,003	973	788	185
35 to 44 years	4,861	3,767	1,094	4,084	3,163	921	777	604	173
45 to 54 years	4,308	3,193	1,115	3,602	2,701	991	616	492	124
55 to 64 years	4,010	2,928	1,082	3,636	2,625	1,011	374	303	71
65 to 74 years	3,508	2,493	1,015	3,256	2,287	969	252	206	46
75 years and over	2,235	1,607	628	2,097	1,499	598	138	108	30
Not stated	36	27	9	29	22	7	7	5	2

Source: Department of Health, Education, and Welfare, Public Health Service, National Office of Vital Statistics; annual report, *Vital Statistics of the United States*.

## Section 21

### Transportation, Air and Land

This section presents statistics concerning the systems of mass transport of persons and goods by land and air. The modes of transport included are railway, trucking, bus and streetcar, and civil aviation. The principal sources of these data are *Transport Statistics in the United States* (formerly *Statistics of Railways in the United States*), published annually by the Interstate Commerce Commission; the *Transit Fact Book* (relating to street railways) published annually by the American Transit Association, and the *Statistical Handbook of Civil Aviation* published by the Civil Aeronautics Administration. Various periodic reports such as the *Monthly Report on Transportation Statistics* and the quarterly (also annual) *Statistics of Class I Motor Carriers* are issued by the Interstate Commerce Commission. In addition, the Association of American Railroads supplements official railway statistics with various releases, and the annual review and statistical number of *Bus Transportation*, a McGraw-Hill publication, summarizes operations of common carrier and school buses. The Interstate Commerce Commission also issues annually *Selected Financial and Operating Statistics from Annual Reports of Electric Railways*, an abstract of the annual reports of electric railway companies, chiefly interurban, which report to it. The Bureau of the Census published a quinquennial report on electric railways from 1902 to 1937. The report included data on affiliated trolley-bus and motor-bus operations in the latter period of its history.

**Railways.**—The total railroad mileage of the United States comprises: (1) Regular interstate carriers (and their nonoperating subsidiaries) reporting to the Interstate Commerce Commission; (2) switching and terminal railroads, also reporting to the Commission; and (3) private railroads (defined by the Commission as "circular" because they report on brief circulars, and as "unofficial"). Except for certain mileage data, the circular and unofficial companies are not included in any of the statistics. The switching and terminal roads were formerly included with operating railways, but are now separated, and data for them do not appear in most of the tables.

Nonoperating subsidiaries comprise proprietary companies, which are covered by the reports of operating carriers, and lessor companies which have no traffic and whose reports appear only in statistics of capitalization, dividends, and investment.

Operating railways are divided into three classes, according to the amount of their annual operating revenues: Class I, having more than \$1,000,000 of such revenue; class II, from \$100,000 to \$1,000,000; and class III, less than \$100,000. During recent years more detailed reports have been required from class I carriers than from smaller companies. The basis of the figures in each table is indicated by notes. Omission of class II and class III railroads affects very little the comparability of statistics with those of earlier years as regards most items, since the bulk of the business is done by class I.

The Interstate Commerce Commission divides railroads geographically into three districts and eight subsidiary regions. Each railroad is treated as a unit and placed wholly in some one district or region. Broadly speaking, the eastern district includes territory east of Chicago and north of the Ohio and Potomac Rivers; southern district, territory east of the Mississippi River and south of the Ohio and Potomac Rivers; and western district, the remainder of the country.

**Note.**—This section presents data for the most recent year or period available on April 25, 1956, when the material was organized and sent to the printer. In a few instances, more recent data were added later.

**Motor carriers.**—Statistics of class I for-hire carriers (those with \$100,000 or more of gross annual operating revenues) are compiled by the Interstate Commerce Commission from annual and quarterly reports submitted to it by these carriers. Beginning with reports for the year 1950, the class I minimum became \$200,000. This series begins with 1939 data.

**Civil aeronautics.**—Federal promotion and regulation of civil aviation are carried out by two bodies—the Civil Aeronautics Administration and the Civil Aeronautics Board. The Civil Aeronautics Board is an independent agency concerned primarily with the issuance of certificates of public necessity, economic regulation, the formulation of safety regulations, and the investigation of accidents to civil aircraft. The Civil Aeronautics Administration is an operating agency of the Department of Commerce. Its principal activities are the building and operation of air navigation aids, the enforcement of safety regulations, and promotion of a national airport system.

**Historical statistics.**—Tabular headnotes (as "See also *Historical Statistics*, series K 28-33") provide cross-references, where applicable, to *Historical Statistics of the United States, 1789-1945*. See preface.

## No. 679.—VOLUME OF DOMESTIC INTERCITY FREIGHT TRAFFIC, BY TYPE OF TRANSPORTATION: 1939 TO 1954

[In millions of ton-miles. A ton-mile is the movement of a ton (2,000 lbs.) of freight for the distance of one mile. Comprises public and private traffic and revenue and nonrevenue traffic]

YEAR	Total traffic, volume	RAILWAYS <sup>1</sup>		MOTOR VEHICLES		INLAND WATERWAYS <sup>2</sup>		OIL PIPELINES		AIRWAYS <sup>3</sup>	
		Volume	Percent of total	Volume	Percent of total	Volume	Percent of total	Volume	Percent of total	Volume	Percent of total
1939	574,834	370,150	64.39	52,821	9.19	96,240	16.74	55,602	9.67	12	0.002
1940	651,168	411,813	63.24	62,007	9.52	118,057	18.13	59,277	9.10	14	0.002
1941	810,988	520,931	64.23	81,156	10.01	140,454	17.32	68,428	8.44	19	0.002
1942	972,843	689,304	70.86	59,853	6.15	148,565	15.27	75,087	7.72	34	0.003
1943	1,076,349	780,251	72.49	56,526	5.25	141,652	13.16	97,867	9.00	53	0.005
1944	1,136,335	795,198	69.98	58,047	5.11	150,155	13.21	132,864	11.69	71	0.006
1945	1,072,166	736,184	68.66	66,614	6.21	142,737	13.31	126,530	11.80	91	0.008
1946	944,168	642,009	68.07	81,676	8.66	123,073	13.13	95,727	10.14	93	0.010
1947	1,000,371	706,675	66.04	101,663	9.59	146,714	13.84	105,161	9.92	158	0.015
1948	1,085,795	688,662	63.42	115,467	10.63	161,846	14.91	119,597	11.02	223	0.021
1949	946,838	567,342	59.92	124,949	13.20	139,396	14.72	114,916	12.14	235	0.025
1950	1,091,486	628,463	57.58	170,184	15.59	163,344	14.07	120,175	11.84	318	0.029
1951	1,203,554	686,377	57.03	182,467	15.16	182,216	15.14	152,115	12.64	379	0.031
1952	1,161,666	651,276	56.06	184,106	15.84	168,367	14.49	157,502	13.56	415	0.036
1953	1,232,477	642,578	52.14	217,163	17.62	202,439	16.43	160,884	13.78	413	0.034
1954 (prel.)	1,145,434	577,529	50.42	214,626	18.74	173,679	15.16	179,203	15.64	397	0.035

<sup>1</sup> Includes electric railways, express, and mail.

<sup>2</sup> Includes Great Lakes.

<sup>3</sup> Domestic service only. Includes express, mail, and excess baggage.

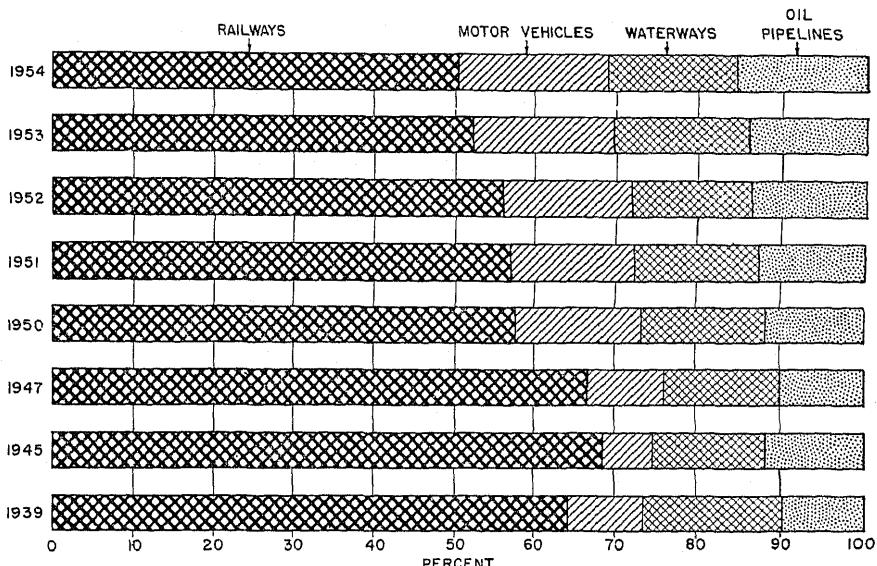
<sup>4</sup> Part of this increase resulted from coverage of waterways previously existing but not covered.

<sup>5</sup> Motor-vehicle ton-miles revised upward on basis of new data; not applied to previous years.

Source: Interstate Commerce Commission; *Annual Report*, and Statement No. 544, *Intercity<sup>4</sup> on-Miles, 1939-1952*, March 1954.

FIG. XXXV.—PERCENT DISTRIBUTION OF DOMESTIC INTERCITY FREIGHT TRAFFIC, BY TYPE OF TRANSPORTATION: 1939 TO 1954

[Airways not shown separately—less than one-tenth of 1 percent. See table 679]



Source: Chart prepared by Department of Commerce, Bureau of the Census. Data are from Interstate Commerce Commission.

## No. 680.—VOLUME OF DOMESTIC INTERCITY PASSENGER TRAFFIC, BY TYPE OF TRANSPORTATION: 1952 TO 1954

[In millions of passenger-miles. A passenger-mile is the movement of one passenger for the distance of one mile. Comprises public and private traffic and revenue and nonrevenue traffic]

TYPE	1952		1953		1954 (prel.)	
	Volume	Percent	Volume	Percent	Volume	Percent
	675,938	100.0	608,769	100.0	625,113	100.0
Total.....						
Railways, steam and electric.....	34,710	6.0	32,261	5.3	20,467	4.7
Motor vehicle.....	525,610	91.1	557,591	91.6	574,377	91.9
Commercial motor carriers.....	30,063	5.0	28,397	4.7	25,614	4.1
Private automobiles.....	495,547	86.1	520,194	86.9	548,763	87.8
Inland waterways (including Great Lakes).....	1,398	0.3	1,487	0.2	1,701	0.3
Airways (domestic revenue service and private pleasure and business flying).....	14,222	2.6	17,430	2.9	19,568	3.1

Source: Interstate Commerce Commission, *Annual Report*.

## No. 681.—RAILWAYS—MILEAGE OWNED AND MILEAGE OPERATED: 1925 TO 1954

[As of December 31. See also *Historical Statistics*, series K 28-33]

ITEM	1925	1930	1935	1940	1945	1950	1953	1954
Number of operating companies <sup>1</sup> .....	947	775	661	574	517	471	448	443
Road owned, first track (miles) <sup>2</sup> .....	249,398	249,052	241,822	233,670	226,696	223,779	221,758	221,098
Miles operated: <sup>3</sup>								
All railways, road, first track.....	261,871	262,215	254,347	246,730	240,156	236,999	235,097	234,497
Total, reporting railways <sup>4</sup> .....	417,954	420,883	410,228	405,975	398,054	396,380	393,736	392,580
Road, first track.....	258,631	260,440	252,920	245,740	239,438	236,857	234,950	234,342
Other main tracks.....	40,962	42,742	41,916	41,373	41,106	40,456	39,704	39,520
Yard track and sidings.....	118,361	126,701	124,382	118,862	117,510	110,067	118,983	118,718
Class I railways, road, first track.....	236,848	242,301	237,491	232,524	227,877	226,101	225,104	224,838

CLASS OF COMPANIES	1952		1953		1954				
	Com-	Miles of road		Com-	Miles of road		Com-	Miles of road	
		Companies	Owned <sup>2</sup>	Oper- ated <sup>3</sup>	Companies	Owned <sup>2</sup>	Oper- ated <sup>3</sup>	Companies	Owned <sup>2</sup>
Total.....	1,005	222,508	235,672	982	221,758	235,097	952	221,098	234,497
Class I line-haul operating.....	126	184,801	225,567	126	191,218	225,194	126	191,007	224,838
Lessors to Class I.....	170	23,021	162	17,614	159	17,491	155	17,353	17,353
Class II line-haul operating.....	163	6,852	7,715	159	6,690	7,555	155	6,509	7,353
Lessors to Class II.....	9	308	9	309	9	309	9	309	309
Class III line-haul operating.....	162	2,094	2,203	159	2,043	2,210	158	2,004	2,151
Lessors to Class III.....	9	70	9	70	9	70	9	70	70
Switching and terminal.....	6,252	(6)	(6)	6,250	(6)	(6)	5,242	(6)	(6)
Proprietary <sup>5</sup> .....	90	4,116	84	3,452	70	3,288	70	3,288	70
Circular.....	20	296	105	18	282	95	18	277	105
Unofficial.....	4	49	22	6	74	43	6	83	50

<sup>1</sup> Classes I, II, III, circular, and unofficial.

<sup>2</sup> Covers continental U. S. only, excluding all duplication.

<sup>3</sup> Includes some duplication under trackage rights and some mileage in Canada operated by U. S. companies.

<sup>4</sup> Excludes circular and unofficial figures for which cover road, first track only.

<sup>5</sup> Comprises 215 operating, 13 lessor, 14 proprietary, 8 circular, and 2 unofficial in 1952; 214 operating, 13 lessor, 14 proprietary, 8 circular, and 3 unofficial in 1953; and 212 operating, 13 lessor, 7 proprietary, 8 circular, and 2 unofficial in 1954.

<sup>6</sup> Figures omitted as "miles of road" of switching and terminal companies is not comparable with that of line-haul companies.

<sup>7</sup> Excludes proprietary companies in systems which file consolidated reports combining mileage, investment, and other items on a net system basis.

Source: Interstate Commerce Commission; annual report: *Statistics of Railways in the United States*; 1954, *Transport Statistics in the United States*.

## RAILWAYS

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## No. 682.—RAILWAYS—SUMMARY STATISTICS: 1890 TO 1954

As of June 30 prior to 1916, December 31 thereafter. Includes intercorporate duplications. Unless otherwise noted, covers railways of classes I, II, and III only, except that prior to 1908 returns for switching and terminal companies were included where applicable. See also *Historical Statistics*, series K 1-83.]

YEAR	Number of operat- ing rail- ways <sup>1</sup>	MILEAGE		EQUIPMENT <sup>4</sup>					
		Road owned (first track) <sup>2</sup>	Track operated (all track) <sup>3</sup>	Locomotives			Cars in service		
				Total in service	Aver- age tract- ive effort <sup>6</sup>	Passen- ger cars	Freight- carrying cars		
1890	1,013	163,507	199,875	30,140	-----	26,820	918,491	-----	-----
1895	1,104	180,657	233,275	35,609	-----	33,112	1,196,119	-----	-----
1900	1,224	183,346	258,784	37,663	-----	34,713	1,365,531	-----	-----
1905	1,380	218,101	306,797	48,357	23,666	40,713	1,731,409	30.8	-----
1910	1,306	240,293	351,767	60,019	27,282	47,179	2,148,478	35.9	-----
1915	1,260	253,789	391,141	66,502	31,501	55,810	2,341,567	39.7	-----
1920	1,085	252,845	406,570	68,942	36,365	56,102	2,388,424	42.4	-----
1925	947	249,308	417,954	68,008	40,666	56,814	2,414,083	44.8	-----
1930	775	249,052	420,883	60,189	45,225	55,584	2,322,267	46.9	-----
1935	661	241,822	419,228	49,541	48,367	42,426	1,867,381	48.3	-----
1940	574	233,670	405,975	44,333	50,905	38,308	1,684,171	50.0	-----
1945	517	226,696	398,054	46,253	53,217	38,633	1,757,073	51.1	-----
1947	502	225,806	397,355	44,344	54,506	39,057	1,759,758	51.5	-----
1948	485	225,149	397,203	44,474	55,170	39,406	1,785,067	51.9	-----
1949	481	224,511	397,232	43,272	56,333	38,006	1,778,811	52.4	-----
1950	471	223,779	396,380	42,951	57,075	37,359	1,745,778	52.6	-----
1951	462	223,427	395,831	42,473	58,476	36,326	1,777,878	52.9	-----
1952	454	222,508	394,631	39,099	59,966	34,942	1,753,352	53.2	-----
1953	448	221,758	393,736	37,251	61,339	34,106	1,801,874	53.5	-----
1954	443	221,098	392,580	35,033	63,152	33,035	1,761,386	53.7	-----
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YEAR		EMPLOYMENT AND WAGES			CAPITAL AND PROPERTY INVESTMENT (includes lessors)				
YEAR	Average num- ber of em- ployees	Compen- sation of railroad employees	Road and equipment		Rail- way capital out- stand- ing <sup>8</sup>	Net capital- iza- tion	Stock paying dividends		
			Investment book value <sup>6</sup>	Deprecia- tion reserve <sup>7</sup>					
1890	1,000	\$1,000	\$1,000	\$1,000	Mil. dol.	Mil. dol.	\$1,000	-----	-----
1895	749	-----	8,133,665	-----	8,984	7,577	1,598,132	-----	-----
1900	785	445,508	9,203,491	-----	10,347	8,900	1,455,618	-----	-----
1905	1,018	577,265	10,263,313	-----	11,491	9,548	2,668,970	-----	-----
1910	1,382	839,945	11,951,349	-----	13,805	11,167	4,119,087	-----	-----
1915	1,699	1,143,725	14,557,816	-----	18,417	14,376	5,412,578	-----	-----
1920	1,548	1,277,663	17,441,420	511,452	21,128	16,308	5,219,847	-----	-----
1925	2,076	3,754,281	19,849,320	1,081,342	21,891	16,994	5,075,040	-----	-----
1930	1,786	2,916,193	23,217,209	1,681,291	23,644	18,191	6,278,532	-----	-----
1935	1,517	2,588,508	26,051,000	2,360,767	24,331	19,066	7,702,021	-----	-----
1940	1,014	1,666,229	25,500,465	2,771,404	24,247	18,342	3,412,968	-----	-----
1945	1,046	1,990,631	25,046,014	3,095,237	23,371	17,630	3,741,132	-----	-----
1947	1,430	3,900,928	26,967,766	5,549,720	20,801	15,667	5,383,539	-----	-----
1948	1,371	4,390,296	27,686,103	6,037,033	20,173	15,301	5,184,182	-----	-----
1949	1,345	4,820,747	28,664,759	6,270,892	20,302	15,467	6,446,317	-----	-----
1950	1,209	4,486,545	29,519,832	6,438,177	20,427	15,600	5,924,295	-----	-----
1951	1,287	4,644,890	30,174,312	6,029,150	20,309	15,618	6,768,658	-----	-----
1952	1,292	5,328,072	31,077,781	6,837,120	20,272	15,489	6,700,472	-----	-----
1953	1,242	5,382,489	31,822,114	6,926,771	20,072	15,457	6,734,590	-----	-----
1954	1,221	5,380,828	32,416,356	7,009,758	19,967	15,365	7,252,253	-----	-----
1947	1,078	4,906,584	32,708,945	7,152,098	19,777	15,336	6,618,539	-----	-----

See footnotes at end of table.

## No. 682.—RAILWAYS—SUMMARY STATISTICS: 1890 TO 1954—Continued

YEAR OR YEARLY AVERAGE	INCOME AND EXPENSES					INTEREST AND DIVIDENDS (includes lessors)			
	Operating revenue	Operating expenses	Railway operating income	Railway tax accruals	Net income (includes lessors)	Dividends declared	Interest accrued on funded debt		
1891-1895	\$1,000 1,127,531	\$1,000 759,588	\$1,000 -----	\$1,000 34,915	\$1,000 93,876	\$1,000 94,093	\$1,000 243,013		
1896-1900	1,264,048	832,377	-----	41,970	151,550	104,295	249,548		
1901-1905	1,854,682	1,226,787	-----	53,106	321,776	199,752	285,755		
1906-1910	2,528,171	1,705,542	740,607	80,931	478,097	339,685	363,470		
1911-1915	3,007,262	2,123,282	760,502	123,345	459,489	401,944	436,178		
1916-1920	4,870,468	3,971,453	672,380	227,680	562,892	350,789	480,053		
1921-1925	6,003,699	4,684,135	988,751	328,822	562,314	400,389	558,375		
1926-1930	6,139,269	4,502,029	1,249,408	386,372	807,103	543,007	582,701		
1931-1935	3,473,819	2,622,222	855,346	265,137	29,032	225,072	580,677		
1936-1940	4,071,163	2,993,447	719,380	353,335	132,951	198,307	532,413		
1941-1945	8,122,360	5,507,771	1,349,035	1,265,554	746,475	268,907	512,508		
1946-1950	8,909,102	6,939,656	1,008,253	911,192	598,275	310,937	374,057		
1947	8,784,214	6,869,806	965,136	949,273	537,307	280,307	374,150		
1948	9,784,332	7,552,630	1,188,666	1,043,036	767,949	335,313	361,879		
1949	8,680,791	6,968,296	867,406	845,089	496,103	306,905	365,393		
1950	9,587,000	7,135,055	1,239,861	1,212,084	854,951	348,811	367,218		
1951	10,511,612	8,122,521	1,651,447	1,223,644	757,934	373,574	367,244		
1952	10,702,877	8,134,811	1,285,022	1,282,144	900,472	394,042	376,907		
1953	10,787,891	8,218,223	1,364,302	1,205,366	939,887	445,145	378,218		
1954	9,484,015	7,460,507	1,466,203	877,304	712,252	405,410	376,020		
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YEAR OR YEARLY AVERAGE	PASSENGER SERVICE			FREIGHT SERVICE					
	Passenger revenue (rail line)	Passenger miles	Revenue per passenger mile	Freight revenue (rail line)	Revenue ton-miles originated	Tons carried 1 mile	Revenue ton miles per mile of road	Revenue per ton-mile	Haul per ton
					Mil. tons	Mil. tons	Ton-miles	Cents	Miles
1891-1895	\$1,000 281,415	13,333	2.10 758,930	\$1,000 10,543	85,603	506,809	0.886	-----	-----
1896-1900	279,900	13,863	2.02	870,837	113,962	611,128	.772	-----	-----
1901-1905	416,609	20,737	2.01	1,298,714	691	167,715	820,016	.774	242,67
1906-1910	566,815	28,633	1.98	1,744,525	930	228,936	1,006,849	.762	246,10
1911-1915	672,792	33,768	1.99	2,051,625	1,074	277,073	1,104,718	.740	257.95
1916-1920	1,021,536	42,548	2.40	3,410,260	1,326	390,815	1,510,297	.875	294.78
1921-1925	1,112,634	36,869	3.02	4,377,616	1,231	375,408	1,455,589	1.166	304.96
1926-1930	908,341	31,846	2.85	4,690,122	1,365	430,310	1,657,434	1.000	315.34
1931-1935	392,869	18,375	2.14	2,763,061	798	270,102	1,051,083	1.023	339.12
1936-1940	419,760	23,068	1.82	3,313,398	986	341,321	1,370,519	.971	346.13
1941-1945	1,342,958	71,713	1.87	6,221,235	1,482	654,687	2,711,448	.950	430.36
1946-1950	973,788	43,775	2.22	7,236,485	1,466	602,917	2,532,696	1.200	411.23
1947	965,005	45,972	2.10	7,140,881	1,613	657,878	2,752,015	1.085	407.82
1948	995,630	41,224	2.34	8,090,194	1,580	641,104	2,695,708	1.262	405.44
1949	862,139	35,133	2.45	7,151,237	1,284	529,111	2,220,430	1.352	412.02
1950	814,741	31,790	2.55	7,933,764	1,421	591,550	2,496,927	1.341	416.32
1951	901,019	34,640	2.60	8,757,874	1,547	649,831	2,748,700	1.348	419.99
1952	906,838	34,033	2.67	8,915,130	1,447	617,941	2,622,463	1.443	426.03
1953	842,668	31,679	2.66	9,077,996	1,448	608,964	2,592,188	1.491	420.66
1954	767,987	29,310	2.62	7,914,809	1,279	652,197	2,356,646	1.433	431.65

<sup>1</sup> Includes circular and unofficial companies. <sup>2</sup> Comprises lessors, proprietary, circular, and unofficial companies.<sup>3</sup> For railways reporting track by class. Excludes circular and unofficial figures for which cover road, first track only.<sup>4</sup> Includes switching and terminal companies except as noted.<sup>5</sup> Since 1916 represents steam locomotives and freight cars of class I railways, excluding switching and terminal companies.<sup>6</sup> Increase in investment over a period of years cannot be obtained accurately by subtraction of 1 year's investment from that of another owing to reorganization, sale, or abandonment, reclassification, etc. Includes lessor companies since 1921; for 1925 and subsequent years, includes proprietary companies except those which are part of systems filing consolidated annual reports.<sup>7</sup> Includes depreciation on "Miscellaneous physical property" for years prior to 1920. A amortization of defense projects included subsequent to 1940.<sup>8</sup> Comprises actually outstanding, nominally issued, and nominally outstanding securities, and equipment obligations.<sup>9</sup> Average for 1908-1910.<sup>10</sup> Average for 1899 and 1900.Sources: Interstate Commerce Commission; annual report: *Statistics of Railways in the United States*; 1954, *Transport Statistics in the United States*.

No. 683.—RAILWAYS—MILES OF ROAD OWNED, BY STATES AND FOR TERRITORIES: 1870 TO 1954

[Data are for actual length of line in each State without duplication. As of June 30 prior to 1920, Dec. 31 thereafter; includes reporting circular and unofficial railways, but beginning with 1910 excludes switching and terminal roads. See also *Historical Statistics*, series K, 1, 2, and 29, for annual U. S. totals.]

DIVISION AND STATE OR TERRITORY	1870 <sup>1</sup>	1880 <sup>1</sup>	1890	1900	1910 <sup>2</sup>	1920	1930	1940	1950	1954
Cont. U. S.	52,922	93,267	163,597	193,346	240,439	252,845	249,052	233,670	223,779	221,098
New England	4,494	5,982	6,718	7,521	7,921	7,942	7,596	6,677	6,396	6,232
Maine	736	1,005	1,338	1,915	2,248	2,295	2,193	1,882	1,830	1,795
New Hampshire	736	1,015	1,145	1,239	1,246	1,252	1,185	1,002	936	870
Vermont	614	914	921	1,012	1,100	1,077	1,056	919	889	861
Massachusetts	1,480	1,915	2,094	2,119	2,115	2,106	2,022	1,793	1,728	1,694
Rhode Island	136	210	213	212	212	211	191	194	185	181
Connecticut	742	923	1,007	1,024	1,000	1,001	969	887	830	831
Middle Atlantic	9,709	13,832	18,161	20,709	21,980	22,293	21,752	20,175	19,180	18,782
New York	3,928	5,957	7,661	8,121	8,430	8,390	8,312	7,739	7,493	7,354
New Jersey	1,125	1,684	2,047	2,257	2,260	2,352	2,299	2,108	1,902	1,971
Pennsylvania	4,656	6,191	8,453	10,331	11,290	11,551	11,141	10,328	9,695	9,457
South Atlantic	7,349	9,789	18,270	23,362	29,795	32,380	31,644	29,475	27,924	27,669
Delaware	197	275	323	347	335	335	325	295	295	293
Dist. of Columbia	671	1,040	{ 30	32	36	36	36	35	34	35
Maryland	1,231	1,376	1,426	1,436	1,443	1,443	1,367	1,309	1,281	
Virginia	1,456	1,893	3,160	3,779	4,535	4,703	4,516	4,261	4,073	4,135
West Virginia	387	691	1,328	2,228	3,601	3,996	4,046	3,831	3,719	3,713
North Carolina	1,178	1,486	3,001	3,831	4,932	5,522	5,161	4,668	4,435	4,326
South Carolina	1,189	1,427	2,194	2,818	3,442	3,814	3,780	3,466	3,223	3,194
Georgia	1,845	2,459	4,532	5,652	7,056	7,326	6,671	6,334	6,043	6,001
Florida	446	518	2,471	3,299	4,432	5,212	5,666	5,218	4,703	4,691
East North Central	14,701	25,109	36,924	41,007	44,928	44,904	43,770	41,281	39,851	39,436
Ohio	3,538	5,792	7,912	8,807	9,134	9,002	8,804	8,501	8,418	8,415
Indiana	3,177	4,373	6,971	6,471	7,420	7,426	7,106	6,889	6,652	6,640
Illinois	4,823	7,851	10,214	11,003	11,878	12,188	12,500	11,949	11,643	11,385
Michigan	1,658	3,938	7,243	8,195	9,021	8,734	8,072	7,303	6,803	6,731
Wisconsin	1,525	3,155	5,684	6,531	7,475	7,564	7,288	6,639	6,335	6,255
West North Central	8,046	19,094	33,354	42,988	49,730	52,180	51,400	48,293	47,108	46,949
Minnesota	1,092	3,151	5,466	6,943	8,669	9,114	8,779	8,421	8,333	8,297
Iowa	2,683	5,400	8,356	9,185	9,755	9,808	9,608	8,050	8,585	8,516
Missouri	2,000	3,965	6,004	6,875	8,083	8,117	7,897	7,042	6,735	6,732
North Dakota	65	1,225	{ 1,941	2,731	4,201	5,311	5,275	5,266	5,255	5,257
South Dakota			2,486	2,850	3,948	4,276	4,288	4,006	3,958	3,949
Nebraska	705	1,953	5,295	5,685	6,067	6,166	6,174	6,044	5,800	5,752
Kansas	1,501	3,400	8,806	8,719	9,007	9,388	9,339	8,564	8,441	8,416
East South Central	4,656	6,343	11,144	13,343	17,074	17,754	17,452	16,179	15,574	15,405
Kentucky	1,017	1,530	2,746	3,060	3,526	3,929	4,054	3,691	3,641	3,563
Tennessee	1,492	1,843	2,752	3,137	3,816	4,078	3,940	3,573	3,471	3,432
Alabama	1,157	1,843	3,314	4,226	5,226	5,378	5,249	4,096	4,723	4,669
Mississippi	990	1,127	2,332	2,920	4,506	4,369	4,209	3,919	3,739	3,741
West South Central	1,417	5,044	13,782	18,221	31,122	32,972	33,227	31,497	29,771	29,336
Louisiana	450	652	1,759	2,824	5,554	5,223	4,654	4,357	4,079	4,024
Texas	711	3,244	8,613	9,886	14,282	16,125	17,069	16,356	15,611	15,355
Oklahoma	289	1,214	2,151	3,980	5,572	6,678	6,302	5,977	5,957	5,957
Arkansas	256	859	2,196	3,360	5,306	5,052	4,826	4,482	4,104	4,000
Mountain	1,466	5,082	12,676	15,808	22,956	25,170	24,973	23,518	22,101	21,516
Montana	106	2,181	3,010	4,207	5,072	5,228	5,149	5,059	5,030	
Wyoming	459	512	942	1,220	1,645	1,981	2,036	2,008	1,925	1,890
Colorado	157	1,570	4,176	4,587	5,533	5,519	4,972	4,552	4,273	3,871
New Mexico	758	1,324	1,753	3,032	2,972	2,973	2,812	2,496	2,475	
Arizona	349	1,097	1,512	2,097	2,478	2,494	2,228	2,197	2,152	
Utah	257	842	1,090	1,647	1,985	2,161	2,196	2,082	1,788	1,745
Nevada	593	739	925	909	2,277	2,160	2,109	1,941	1,650	1,649
Idaho	206	941	1,261	2,179	2,877	2,965	2,746	2,713	2,704	
Pacific	1,084	2,992	7,567	10,389	14,932	17,248	17,238	16,575	15,874	15,773
Washington		289	1,783	2,914	4,875	5,587	5,542	5,243	5,124	5,023
Oregon	159	508	1,428	1,724	2,285	3,305	3,456	3,385	3,217	3,232
California	925	2,195	4,356	5,751	7,772	8,356	8,240	7,947	7,533	7,518
Alaska				22	390	246	790	536	567	568
Hawaii					175	243	232	192	26	25

<sup>1</sup> Represents mileage operated.

<sup>2</sup> Corrected total is 240,293; not distributed by States.

Source: Interstate Commerce Commission; annual report: *Statistics of Railways in the United States*; 1954, *Transport Statistics in the United States*.

No. 684.—RAILWAYS (ALL REPORTING COMPANIES)—EQUIPMENT IN SERVICE:  
1925 TO 1954

[For years ending December 31. "All reporting companies" include switching and terminal but not circular and unofficial lines. Data for tractive effort and capacity of cars exclude switching roads, also smaller roads during recent years; they would not be materially different if all carriers were included. Excludes the large number of cars owned by private car lines. See also *Historical Statistics*, series K 34-38.]

YEAR	LOCOMOTIVES						FREIGHT-CARRYING CARS <sup>3</sup>			Passenger-train cars	
	Total number <sup>1</sup>	Steam		Electric locomotive units	Diesel electric locomotive units		Total number (1,000)	Capacity <sup>2</sup>			
		Number	Tractive effort <sup>2</sup>		Number	Tractive effort <sup>2</sup>		Total number (1,000)	Average (tons)		
1925	68,098	67,713	2,586,868	40,666	379	1	(4)	2,414	105,570	44.8	
1930	60,189	59,406	2,526,940	45,225	603	77	(4)	2,322	106,180	46.9	
1935	49,541	48,477	2,206,201	48,367	884	130	(4)	1,867	88,677	48.3	
1940	44,333	42,410	2,038,284	50,905	900	967	43,939	55,130	1,684	82,722	
1944	46,305	41,921	2,096,046	52,822	902	3,432	171,957	56,398	89,960	50.8	
1946	46,253	41,018	2,067,639	53,217	855	4,301	213,193	55,868	1,787	89,872	
1946	45,511	39,592	2,017,807	53,735	887	5,008	248,129	55,872	1,768	89,391	
1947	44,344	36,942	1,913,593	54,506	884	6,495	326,255	56,524	1,760	89,225	
1948	44,474	34,581	1,815,860	55,170	867	8,981	455,287	56,285	1,785	91,294	
1949	43,272	30,344	1,631,633	56,333	856	12,025	617,506	56,714	1,779	91,961	
1950	42,951	26,680	1,463,413	57,075	827	15,396	807,523	57,487	1,746	90,465	
1951	42,473	22,590	1,271,671	58,476	817	19,014	1,018,119	58,202	1,778	92,671	
1952	39,699	16,738	964,130	59,966	791	22,118	1,207,349	58,918	1,783	93,545	
1953	37,251	12,274	723,007	61,339	713	24,209	1,336,529	59,393	1,802	95,075	
1954	35,033	9,041	546,266	63,152	669	25,256	1,404,606	59,692	1,761	93,196	

<sup>1</sup> Includes locomotives other than classes shown.

<sup>2</sup> Class I roads.

<sup>3</sup> Excludes caboose cars.

<sup>4</sup> Not available.

## No. 685.—RAILWAYS—CARS IN SERVICE, BY CLASS: 1940 TO 1954

[All operating companies include switching and terminal companies but not circular and unofficial lines. Excludes cars owned by private car lines, roughly equaling one-tenth of those owned by railway companies]

CLASS	ALL OPERATING COMPANIES					CLASS I, 1954			
	1940	1945	1950	1953	1954	Total	Eastern district	Southern district	Western district
Freight-train cars	1,706,387	1,812,271	1,769,983	1,825,026	1,783,902	1,757,731	691,083	427,457	639,191
Steel <sup>1</sup>	956,004	1,153,145	1,335,676	1,499,070	1,490,675	1,490,675	645,369	390,074	455,232
Steel underframe <sup>1</sup>	640,428	570,513	374,532	270,273	238,913	238,913	37,326	32,063	189,529
Freight-carrying cars	1,684,171	1,787,073	1,745,778	1,801,874	1,761,386	1,736,057	682,721	423,021	630,315
Box	708,682	745,901	718,150	740,267	724,947	719,918	265,263	130,466	324,199
Flat	65,752	71,092	67,712	75,992	77,231	74,541	9,796	22,178	42,567
Stock	54,074	54,484	46,381	41,680	39,644	39,644	5,148	2,603	31,863
Gondola and hopper (open and closed tops)	809,538	874,553	874,801	905,803	879,282	863,310	399,554	259,463	204,293
Tank	8,836	9,030	8,436	8,015	7,544	6,929	52	156	6,721
Refrigerator	21,772	21,001	19,083	19,131	19,266	19,260	1,411	588	17,261
Other	14,917	11,012	11,215	10,986	13,472	12,455	1,497	7,577	3,381
Caboose cars	22,216	26,198	24,205	23,152	22,516	21,674	8,362	4,436	8,876
Passenger-train cars	38,303	38,633	37,859	34,106	33,035	32,913	17,215	4,824	10,874
Steel <sup>1</sup>	29,897	31,838	32,220	31,601	31,059	31,059	16,243	4,533	10,283
Steel underframe <sup>1</sup>	6,442	5,576	3,051	2,237	1,764	1,754	935	277	542
Coaches	17,470	17,668	16,488	14,460	14,210	14,174	8,630	1,774	3,770
Combination coach	3,207	2,748	2,331	1,879	1,711	1,652	834	258	560
Parlor and sleeping <sup>2</sup>	422	731	437	397	443	443	210	61	172
Dining	1,535	1,552	1,836	1,617	1,584	1,534	563	290	681
Club, lounge, and observation	370	278	430	422	434	434	73	54	307
Postal	1,829	1,701	1,770	1,586	1,562	1,562	806	216	540
Baggage, express, and other nonpassenger	13,087	13,671	13,817	13,481	12,890	12,872	6,050	2,154	4,668
Other passenger	105	26	20	65	77	76	15	4	57
Other passenger-train	283	258	230	199	174	166	34	13	119
Company service equipment	77,811	90,056	95,547	91,874	87,457	85,973	24,324	18,601	43,048
Motor cars and trailers	4,081	3,820	3,697	3,544	3,488	3,488	2,950	339	199

<sup>1</sup> Data represent class I roads only; figures exclude caboose cars.

<sup>2</sup> Excludes cars owned or leased by Pullman Co.

Source of tables 684 and 685: Interstate Commerce Commission; annual report: *Statistics of Railways in the United States*; 1954, *Transport Statistics in the United States*.

No. 686.—RAILWAYS (CLASS I)—EQUIPMENT INSTALLED AND PERMANENTLY WITHDRAWN FROM SERVICE: 1938 TO 1954

[Comprises owned and leased equipment]

YEAR	LOCOMOTIVES		FREIGHT-TRAIN CARS		PASSENGER-TRAIN CARS	
	New units installed	Units permanently withdrawn <sup>1</sup>	New units installed	Units permanently withdrawn <sup>1</sup>	New units installed	Units permanently withdrawn <sup>1</sup>
1938	252	1,129	15,213	60,827	275	1,009
1939	298	1,660	23,236	74,229	209	790
1940	421	1,260	60,455	54,846	154	754
1941	632	718	76,392	26,693	297	587
1942	716	579	58,595	15,287	273	884
1943	891	268	28,000	13,516	8	255
1944	1,245	519	38,970	24,589	104	223
1945	901	1,110	37,132	44,247	111	375
1946	712	1,424	38,823	52,713	481	521
1947	1,398	2,739	55,543	62,594	858	736
1948	2,350	2,377	95,979	69,363	951	803
1949	2,884	4,099	80,815	85,577	939	923
1950	3,215	3,495	40,032	72,669	1,078	1,188
1951	3,514	4,093	86,627	54,496	183	1,109
1952	3,062	5,851	64,347	59,889	195	1,480
1953	2,141	4,412	67,229	46,304	329	1,325
1954	1,126	3,297	26,231	71,780	351	1,367

<sup>1</sup> Permanently withdrawn for sale or demolition.

Source: Interstate Commerce Commission; annual report: *Statistics of Railways in the United States*; 1954, *Transport Statistics in the United States*.

No. 687.—RAILWAYS—STOCK OUTSTANDING, DIVIDENDS, AND INTEREST: 1891 TO 1954

[For years ending June 30 prior to 1916; December 31 thereafter. Comprises both operating and nonoperating roads. Excludes switching and terminal roads beginning with 1908. Dividend figures throughout cover all classes of roads, but interest figure for 1913 excludes unimportant class III roads. Amount of stock shown in first column is exclusive of stock held by or for issuing company, but includes that held by other railway companies. See also *Historical Statistics*, series K 67, 80, and 81.]

YEAR OR YEARLY AVERAGE	STOCK			DIVIDENDS (includes lessors)			Interest accrued on funded debt <sup>2</sup> (\$1,000)
	Actually outstanding (\$1,000)	Paying dividends (\$1,000)	Percent paying dividends	Amount declared (\$1,000)	Percent on stock paying dividends	Percent on all stock outstanding	
1891-1895	1,737,048	-----	-----	94,093	5.42	-----	243,013
1896-1900	1,977,832	-----	-----	104,295	5.27	-----	249,548
1901-1905	3,505,694	-----	-----	199,752	5.70	-----	285,755
1906-1910	4,930,368	-----	-----	339,685	6.89	-----	363,470
1911-1915	8,561,050	5,595,888	65.36	401,944	7.18	4.70	436,178
1916-1920	8,866,429	5,310,622	59.00	350,789	6.61	3.96	480,053
1921-1925	9,131,529	5,669,613	62.09	400,389	7.06	4.38	558,375
1926-1930	9,697,138	7,108,596	73.31	543,007	7.64	5.60	582,701
1931-1935	9,992,404	4,113,651	41.17	225,072	5.47	2.25	580,677
1936-1940	9,814,851	3,511,140	35.77	198,307	5.65	2.02	532,413
1941-1945	9,460,110	5,118,116	54.10	268,997	5.26	2.84	512,508
1946-1950	9,256,362	5,909,027	63.84	310,987	5.26	3.36	374,957
1950	9,184,132	6,768,658	73.70	348,811	5.15	3.80	367,218
1951	9,211,990	6,700,472	72.74	373,574	5.58	4.06	367,244
1952	9,196,329	6,734,590	73.23	394,042	5.85	4.28	376,907
1953	8,891,005	7,252,253	81.57	445,145	6.14	5.01	378,218
1954	8,846,020	6,618,539	74.82	405,410	6.13	4.58	376,020

Source: Interstate Commerce Commission; annual report: *Statistics of Railways in the United States*; 1954, *Transport Statistics in the United States*.

## TRANSPORTATION, AIR AND LAND

## NO. 688.—RAILWAYS (ALL REPORTING COMPANIES)—CAPITALIZATION AND CAPITAL EXPENDITURES: 1890 TO 1954

[In millions of dollars, except as indicated. For years ending June 30 prior to 1920, December 31 thereafter. Excludes switching and terminal companies beginning with 1910; their total capitalization in 1954 was \$704,332,283. Comprises both operating and nonoperating railways. Gross figures include considerable amounts of securities held by companies issuing them as well as larger amounts held by other railway companies. See also *Historical Statistics*, series K 62-66 and 68-70.]

YEAR	TOTAL CAPITALIZATION				HELD BY RAILROADS		NET CAPITALIZATION		CAPITAL EXPENDITURES FOR ADDITIONS AND BETTERMENTS <sup>1</sup>	
	Total	Common stock	Preferred stock	Funded debt	Stock	Funded debt	Total	P per mile of road	Equipment	Roadway and structures
	Dollars	\$1,000	\$1,000							
1890	8,984	3,803	606	4,575	964	443	7,577			
1900	11,491	4,522	1,323	5,646	1,470	473	9,548			
1910	18,417	6,710	1,403	10,304	2,555	1,486	14,376	62,819		
1920	21,801	7,215	1,898	12,778	2,407	2,490	16,994	68,787		
1925	28,644	7,602	1,937	14,105	2,654	2,799	18,191	74,460	338,114	410,077
1930	24,331	8,009	2,074	14,248	2,897	2,368	19,066	77,343	328,269	544,339
1935	24,247	7,987	2,086	14,224	3,022	2,883	18,342	76,389	79,335	108,967
1940	23,371	8,005	2,064	13,302	3,048	2,093	17,630	75,839	271,906	157,241
1944	21,603	7,790	2,023	11,880	2,849	2,568	16,276	72,037	328,231	231,881
1945	20,801	7,743	2,004	11,144	2,739	2,485	15,667	69,654	309,760	240,139
1946	20,645	7,733	1,980	10,832	2,699	2,337	15,509	68,982	318,602	231,152
1947	20,178	7,539	2,008	10,631	2,540	2,322	15,301	68,161	571,269	289,573
1948	20,302	7,543	2,016	10,743	2,644	2,191	15,467	68,930	920,783	344,590
1949	20,427	7,619	2,012	10,806	2,612	2,206	15,609	69,751	983,907	321,768
1950	20,399	7,492	2,002	10,905	2,514	2,267	15,618	69,984	770,399	286,443
1951	20,272	7,491	2,006	10,775	2,499	2,284	15,489	69,513	1,050,849	363,146
1952	20,072	7,514	1,987	10,571	2,460	2,126	15,487	69,843	936,900	405,822
1953	19,967	7,545	1,929	10,493	2,499	2,102	15,366	69,094	857,893	401,904
1954	19,777	7,547	1,582	10,348	2,414	2,027	15,336	69,476	498,726	321,520

<sup>1</sup> Class I railways.

Source: Interstate Commerce Commission; annual report: *Statistics of Railways in the United States*; 1954, *Transport Statistics in the United States*.

## NO. 689.—RAILWAYS—INVESTMENT, INCOME, AND DIVIDENDS: 1910 TO 1954

[For years ending December 31, except where noted. Excludes data for switching and terminal companies. Investment is as reported by carrier and should not be confused with tentative valuation fixed by Interstate Commerce Commission. See also *Historical Statistics*, series K 60, 61, and 77, for earlier data on investment and net operating income]

YEAR	Investment book value <sup>1</sup>	Investment per mile of road	Depreciation reserve <sup>2</sup>	Net railway operating income	Return on investment	Other income <sup>3</sup>	Interest, rents, and other deductions <sup>3</sup>	Dividends declared <sup>3</sup>
1910, June 30	\$1,000	Dollars	\$1,000	\$1,000	Percent	\$1,000	\$1,000	\$1,000
	4 14,557,816	64,382	805,097	5.53	222,915	511,417	351,202	
1920	19,849,320	81,954	1,081,342	12,101	0.06	(6)	640,516	275,348
1925	23,217,209	94,917	1,651,291	1,136,728	4.89	272,102	706,272	349,089
1930	26,051,000	105,661	2,360,707	874,154	3.36	361,196	716,730	511,259
1935	25,500,465	106,330	2,771,404	505,415	1.98	186,228	686,688	131,448
1940	25,646,014	110,449	3,095,237	690,554	2.60	170,794	670,257	166,606
1944	26,631,654	117,771	4,382,604	1,113,153	4.18	213,052	640,423	249,592
1945	26,967,756	119,664	5,549,720	858,864	3.18	206,993	589,073	249,581
1946	27,277,974	121,074	5,800,975	624,868	2.29	211,983	584,819	237,005
1947	27,086,103	123,215	6,037,033	790,534	2.86	230,980	536,442	240,733
1948	28,664,759	127,625	6,279,892	1,014,815	3.54	237,410	544,784	295,191
1949	29,519,832	131,784	6,438,177	693,957	2.35	256,934	508,408	257,192
1950	30,174,312	135,076	6,629,150	1,055,309	3.50	267,850	527,342	319,116
1951	31,077,782	139,332	6,837,120	956,690	3.08	276,258	529,037	337,539
1952	31,822,114	143,288	6,926,771	1,091,657	3.43	291,329	547,461	344,094
1953	32,416,356	146,414	7,009,758	1,122,512	3.46	312,003	520,882	419,207
1954	32,708,945	148,180	7,152,098	887,817	2.71	279,052	474,647	385,434

<sup>1</sup> Includes proprietary companies. Increases in investment over a period of years cannot be obtained accurately by subtraction of 1 year's investment from that of another owing to reorganization, sale or abandonment, reclassification, etc.

<sup>2</sup> Amortization of defense projects included subsequent to 1940. <sup>3</sup> Excludes returns for lessor companies.

<sup>4</sup> Investment originally published is increased by \$170,000,000, estimated reserve for accrued depreciation, to make figures comparable with those of other years.

<sup>5</sup> Comparable figure not available.

<sup>6</sup> Excludes returns for class II and class III companies.

Source: Interstate Commerce Commission; annual report: *Statistics of Railways in the United States*; 1954, *Transport Statistics in the United States*.

## No. 690.—RAILWAYS—REVENUES, EXPENSES, AND INCOME: 1936 TO 1954

[Excludes switching and terminal companies; operating revenues of switching and terminal companies: 1951, \$261,675,000; 1952, \$263,194,000; 1953, \$274,639,000; 1954, \$224,124,000; operating expenses: 1951, \$188,893,000; 1952, \$189,001,000; 1953, \$198,652,000; 1954, \$173,957,000. See also *Historical Statistics*, series K 71-79]

ITEM	ALL ROADS						
	1936-1940, average	1941-1945, average	1946-1950, average	1951	1952	1953	1954
Average miles of line (first track) operated.....	249,100	241,723	238,023	236,414	235,634	234,912	234,315
Income account items (\$1,000):							
Operating revenues.....	4,071,163	8,122,360	8,909,102	10,511,612	10,702,877	10,787,891	9,484,015
Per mile of line..... dollars	16,343	33,602	37,430	44,463	45,422	45,923	40,475
Operating expenses.....	2,998,447	5,507,771	6,980,656	8,122,521	8,134,811	8,218,223	7,460,507
Percent of revenue.....	73.65	67.81	78.46	77.27	76.01	76.18	78.66
Net revenue from operations.....	1,072,716	2,614,589	1,919,445	2,389,001	2,668,066	2,569,668	2,023,508
Per mile of line..... dollars	4,306	10,816	8,064	10,106	10,899	10,939	8,636
Tax accruals.....	353,335	1,265,584	911,192	1,223,644	1,282,144	1,205,366	877,304
Net railway operating income.....	587,364	1,170,308	835,897	966,699	1,091,657	1,122,512	887,817

ITEM	CLASS I							
	Total		Eastern district		Southern district		Western district	
	1953	1954	1953	1954	1953	1954	1953	1954
Average miles of line (first track) operated.....	225,242	224,816	52,908	52,818	45,508	45,431	126,826	126,567
Income account items (\$1,000):								
Operating revenues.....	10,664,160	9,370,825	4,081,911	3,420,988	2,117,250	1,901,758	4,515,008	4,048,100
Per mile of line..... dollars	47,345	41,682	76,206	64,769	46,525	41,860	35,600	31,984
Operating expenses.....	8,135,229	7,384,499	3,219,262	2,819,545	1,532,454	1,429,119	3,383,513	3,135,835
Percent of revenue.....	76.29	78.80	79.84	82.42	72.38	75.15	74.94	77.46
Net revenue from operations.....	2,528,940	1,986,326	812,649	601,413	584,796	472,639	1,131,495	912,274
Per mile of line..... dollars	11,228	8,835	15,360	11,387	12,850	10,403	8,922	7,208
Tax accruals.....	1,185,001	861,281	342,481	239,203	294,590	218,315	547,930	403,763
Net railway operating income.....	1,109,399	874,018	367,147	245,155	291,808	250,479	450,444	378,384

Source: Interstate Commerce Commission annual report: *Statistics of Railways in the United States*; 1954, *Transport Statistics in the United States*.

## No. 691.—RAILWAYS—RECEIVERSHIPS AND TRUSTEESHIPS: 1884 TO 1954

[For calendar years, except as noted. Beginning 1935, includes roads under trusteeship]

YEAR	UNDER RE-CEIVERSHIP END OF YEAR <sup>1</sup>		PLACED UNDER RE-CEIVERSHIP			YEAR	UNDER RE-CEIVERSHIP END OF YEAR <sup>1</sup>		PLACED UNDER RE-CEIVERSHIP		
	Num- ber	Mileage oper- ated	Num- ber	Mile- age oper- ated	Stocks and long- term debt		Num- ber	Mileage oper- ated	Num- ber	Mile- age oper- ated	Stocks and long- term debt <sup>2</sup>
1884.....			37	11,088	\$1,000	1940.....	103	75,270	1	24	\$1,000
			44	8,836	385,460	1944.....	76	50,497	3	32	3,854
1885.....			26	2,963	105,007	1945.....	72	39,714	1	36	7,012
1889.....	169	37,856	31	4,089	369,075	1946.....	65	34,389			
1900.....	52	4,178	16	1,165	78,284	1947.....	52	22,750	2	31	425
1905.....	26	796	10	3,593	176,321	1948.....	46	13,283	4	29	7,078
1910.....	39	5,257	7	735	51,428	1949.....	44	12,679	2	441	115,572
1915.....	85	30,228	12	20,143	1,070,809	1950.....	42	12,223			
1920.....	61	16,290	10	511	21,620	1951.....	42	12,212			
1925.....	53	18,687	6	11,368	680,422	1952.....	40	11,942	1	(3)	1,406
1930.....	30	9,486	4	4,752	277,324	1953.....	39	12,054	1	265	31,771
1935.....	87	68,345	13	27,124	2,168,871	1954.....	37	11,608	1	(3)	80

<sup>1</sup> Data relate to June 30 through 1915.

<sup>2</sup> Beginning 1940, includes receivers and trustees certificates and nonnegotiable debt to affiliated companies.

<sup>3</sup> Owned mileage for recent years as follows: 1944, 98; 1945, 118; 1947, 365; 1948, 163; 1949, 420; 1952, 43; 1953, 256; 1954, 4.

Source: Interstate Commerce Commission; annual report: *Statistics of Railways in the United States*; 1954, *Transport Statistics in the United States*.

## No. 692.—RAILWAY FREIGHT SERVICE—SUMMARY STATISTICS: 1936 TO 1954

[Excludes switching and terminal roads except as noted. Tons of 2,000 pounds. See also *Historical Statistics*, series K 43-52]

ITEM	ALL ROADS						
	1936-1940, average	1941-1945, average	1946-1950, average	1951	1952	1953	1954
Freight revenue, rail line millions—	\$3,313	\$6,221	\$7,236	\$8,758	\$8,915	\$9,078	\$7,915
Per train-mile <sup>1</sup> ...dol.	6.95	9.29	12.72	16.33	17.48	18.19	17.45
Per loaded car-mile <sup>1</sup> ...cents	23.6	27.9	35.7	41.9	44.3	45.3	43.0
Revenue tons—							
Originated...millions	986	1,482	1,466	1,547	1,447	1,448	1,279
Carried, total...do	1,779	2,925	2,782	2,941	2,770	2,751	2,424
Carried 1 mile...do	341,322	654,687	602,917	649,881	617,942	608,904	552,197
Revenue ton-miles per mile of road...thousands	1,371	2,711	2,533	2,749	2,622	2,592	2,357
Revenue per ton-mile <sup>2</sup> ...cents	.971	.950	1.200	1.348	1.443	1.491	1.433
Freight-train miles...millions	478	667	569	587	510	500	454
Freight-train car-miles:							
Loaded, revenue and non- revenue...millions	13,883	21,969	20,052	20,709	19,920	19,863	18,239
Empty...do	8,371	11,938	10,427	10,659	10,857	11,114	10,689
Average miles per car per day <sup>3</sup> ...		46.2	42.8	43.8	42.8	43.2	40.3
Revenue ton-miles per train- mile	713	977	1,059	1,211	1,211	1,219	1,217
Ton-miles per loaded car mile <sup>4</sup>	24.6	29.7	30.1	31.4	31.0	30.7	30.3
Haul per ton:							
U. S. as a system...miles	346.13	429.36	411.23	419.99	426.93	420.66	431.65
Individual railway...do	191.89	222.44	216.75	220.97	223.11	221.36	227.81
Revenue per ton:							
U. S. as a system...dol.	3.36	4.20	4.94	5.66	6.16	6.27	6.19
Individual railway...do	1.86	2.13	2.60	2.98	3.22	3.30	3.27

ITEM	CLASS I							
	Total		Eastern district <sup>5</sup>		Southern district <sup>5</sup>		Western district	
	1953	1954	1953	1954	1953	1954	1953	1954
Freight revenue, rail line millions—	\$8,950	\$7,798	\$3,231	\$2,688	\$1,840	\$1,646	\$3,879	\$3,464
Per train-mile...dol.	18.19	17.45	21.12	19.91	18.04	17.51	16.37	15.89
Per loaded car-mile cents	45.3	43.0	52.8	49.7	46.2	44.3	40.1	38.4
Revenue tons—								
Originated...millions	1,384	1,224	402	412	377	352	515	460
Carried, total...do	2,613	2,298	1,123	941	625	580	865	777
Carried 1 mile...do	605,813	549,259	196,361	169,089	138,203	128,638	271,249	251,532
Revenue ton-miles per mile of road, thousands	2,687	2,441	3,706	3,197	3,032	2,826	2,138	1,987
Revenue per ton-mile <sup>2</sup> cents	1.478	1.420	1.648	1.592	1.332	1.280	1.430	1.377
Freight-train miles millions	492	447	153	135	102	94	237	218
Freight-train car miles:								
Loaded, revenue and non- revenue, millions	19,770	18,152	6,118	5,408	3,981	3,713	9,671	9,031
Empty...do	11,054	10,631	3,446	3,262	2,396	2,349	5,212	5,020
Average miles per car per day <sup>3</sup>		43.2	40.3	32.7	30.0	43.1	54.7	51.5
Revenue ton-miles per train-mile	1,243	1,240	1,307	1,272	1,362	1,372	1,150	1,162
Ton-miles per loaded car mile <sup>4</sup>	32.0	31.2	33.0	31.9	36.1	35.9	29.6	28.9
Haul per ton:								
U. S. as a system...miles	437.7	448.7	399.4	410.4	366.2	365.4	526.3	546.8
Individual railway miles	231.9	239.0	174.9	179.7	221.0	221.9	313.7	323.6
Revenue per ton:								
U. S. as a system...dol.	6.47	6.37	6.57	6.52	4.88	4.68	7.53	7.53
Individual railway...do	3.43	3.39	2.88	2.86	2.94	2.84	4.49	4.46

<sup>1</sup> Class I roads only.      <sup>2</sup> Based on freight revenue from rail-line operations.

<sup>3</sup> Includes switching and terminal companies.

<sup>4</sup> Based on revenue ton-miles; nonrevenue ton-miles not available for all roads.

<sup>5</sup> Pocahontas region included with Southern district.

<sup>6</sup> Based on revenue and nonrevenue ton-miles.

No. 693.—RAILWAYS—PASSENGERS CARRIED AND PASSENGER REVENUE:  
1936 to 1954

[Passenger service revenue per train-mile comprises revenue from mail, express, etc., but average revenue per passenger-mile is computed only from revenue from passengers themselves. See also *Historical Statistics*, series K 39-42.]

ITEM	ALL ROADS						
	1936-1940, average	1941-1945, average	1946-1950, average	1951	1952	1953	1954
Passengers carried..... 1,000	471,362	772,393	638,334	485,468	470,979	458,252	440,770
Passenger-miles..... millions	23,068	71,713	43,775	34,640	34,093	31,679	29,310
Average journey per passenger miles.....	48.94	92.85	68.58	71.35	72.26	69.13	66.50
Passenger train-miles..... 1,000	403,715	453,217	403,855	356,391	345,533	333,919	317,672
Passenger train car-miles..... millions	2,992	4,167	3,791	3,478	3,434	3,325	3,144
Passenger revenue..... \$1,000	419,760	1,342,958	973,786	901,019	906,838	842,663	767,987
Passenger service train revenue per train-mile <sup>1</sup> ..... dollars	1.49	3.58	3.29	3.76	4.00	3.91	3.80
Revenue per passenger-mile..... cents	1.82	1.87	2.22	2.60	2.66	2.66	2.62
Passenger-miles per train-mile.....	57	158	109	97	99	95	92

ITEM	CLASS I							
	Total		Eastern district <sup>2</sup>		Southern region <sup>2</sup>		Western district	
	1953	1954	1953	1954	1953	1954	1953	1954
Passengers carried..... 1,000	456,817	439,356	330,026	320,021	46,979	40,605	70,812	78,720
Passenger-miles..... millions	31,655	29,286	15,643	14,595	4,166	3,653	11,945	11,038
Average journey per passenger miles.....	69.30	66.66	47.10	45.61	88.69	89.96	149.67	140.20
Passenger train-miles..... 1,000	333,128	317,141	138,877	132,252	47,984	45,430	146,267	139,459
Passenger train car-miles.millions.	3,322	3,142	1,337	1,258	505	471	1,480	1,413
Passenger revenue..... \$1,000	841,906	767,287	458,603	425,251	108,219	95,306	275,084	246,640
Passenger service train revenue per train-mile..... dollars	3.91	3.80	4.71	4.60	3.64	3.53	3.24	3.14
Revenue per passenger-mile..... cents	2.66	2.62	2.95	2.91	2.60	2.61	2.30	2.23
Passenger-miles per train-mile....	95	92	112	110	87	80	82	79

<sup>1</sup> Based on data for class I roads only. <sup>2</sup> Pocahontas region included with Eastern district.

Source: Interstate Commerce Commission; annual report: *Statistics of Railways in the United States*; 1954, *Transport Statistics in the United States*.

No. 694.—RAILWAYS (CLASS I)—NUMBER OF CARS OF REVENUE FREIGHT LOADED, BY PRINCIPAL COMMODITIES: 1925 TO 1955

[In thousands. Figures are 52-week totals]

YEAR	Total	Grain and grain products	Livestock	Coal	Coke	Forest products	Ore	Miscellaneous	Mdse., less than carload
1925.....	51,224	2,306	1,636	8,905	623	3,737	2,012	18,813	13,193
1930.....	45,878	2,265	1,285	7,927	488	2,369	1,662	17,681	12,201
1935.....	31,504	1,577	714	6,145	340	1,384	1,036	12,227	8,081
1938.....	30,457	1,967	703	5,541	275	1,418	846	12,026	7,682
1939.....	33,911	1,940	694	6,083	414	1,584	1,615	13,751	7,831
1940.....	36,358	1,835	685	6,820	549	1,800	2,148	14,842	7,679
1941.....	42,352	2,028	651	7,606	679	2,190	2,683	18,476	8,040
1942.....	42,771	2,185	745	8,356	732	2,445	3,016	19,755	5,537
1943.....	42,440	2,648	838	8,507	752	2,229	2,816	19,571	5,080
1944.....	43,408	2,521	892	8,890	751	2,271	2,649	20,007	5,428
1945.....	41,018	2,734	894	8,296	695	2,039	2,474	19,258	5,529
1946.....	41,341	2,497	925	8,004	587	2,263	1,996	18,744	6,325
1947.....	44,502	2,726	770	9,088	732	2,415	2,651	20,049	6,071
1948.....	42,710	2,468	630	8,600	739	2,348	2,701	19,686	5,457
1949.....	35,911	2,583	551	6,218	588	1,952	2,210	17,220	4,589
1950.....	38,903	2,466	491	7,240	727	2,226	2,529	18,955	4,269
1951.....	40,499	2,588	497	7,503	838	2,363	3,004	19,840	3,866
1952.....	37,085	2,565	492	6,717	673	2,270	2,653	18,924	3,691
1953.....	38,216	2,453	451	6,371	688	2,254	3,143	19,360	3,496
1954.....	33,915	2,555	447	5,670	422	2,085	2,115	17,436	3,185
1955.....	37,884	2,629	442	6,662	619	2,277	2,878	19,140	3,237

Source: Association of American Railroads, Car Service Division, Washington, D. C.; annual summary, *Cars of Revenue Freight Loaded*. Weekly reports are published currently.

## No. 695.—RAILWAYS (CLASS I)—REVENUE FREIGHT ORIGINATED, BY COMMODITY GROUPS: 1930 TO 1954

[In thousands of tons of 2,000 pounds. Excludes switching and terminal roads. Excludes nonrevenue freight; this is a large item in the case of a few commodities, notably coal. See also *Historical Statistics*, series K 52-59]

ITEM	1930	1935	1940	1945	1950	1952	1953	1954
Total	1,153,197	789,627	1,009,421	1,424,913	1,354,196	1,382,595	1,384,301	1,223,969
Products of agriculture	110,728	76,338	88,821	159,571	129,175	138,415	131,137	131,733
Animals and their products	23,129	15,125	15,456	23,748	14,321	14,601	13,768	13,768
Products of mines:								
Coal and coke	407,937	320,628	372,663	485,109	439,365	418,564	395,701	346,209
Other	234,600	124,508	197,557	247,832	307,443	334,135	358,591	303,865
Products of forests	69,371	42,483	58,221	75,604	78,860	83,480	82,107	75,650
Manufactures and miscellaneous	277,765	196,506	262,010	412,216	374,144	384,090	394,742	346,420
All less than carload	29,667	14,039	14,693	20,833	10,888	9,310	8,255	6,964

<sup>1</sup> Includes forwarder traffic beginning 1940.

Source: Interstate Commerce Commission; annual report: *Statistics of Railways in the United States*; 1954, *Transport Statistics in the United States*.

## No. 696.—RAILWAYS—NUMBER AND COMPENSATION OF EMPLOYEES: 1920 TO 1954

[Excludes switching and terminal roads. See also *Historical Statistics*, series K 82-83]

YEAR	ALL OPERATING CARRIERS		CLASS I CARRIERS				
	Average number of employees	Total yearly compensation (\$1,000)	Average number of employees	Total hours (0,000)	Total yearly compensation (\$1,000)	Average hours per employee	Average compensation
						Per hour <sup>1</sup>	Per year
1920	2,075,886	8,754,281	2,022,832	5,446,741	3,681,801	2,602.6	\$0.676
1925	1,786,411	2,916,198	1,744,311	4,531,361	2,860,600	2,597.8	.631
1930	1,517,043	2,558,598	1,487,829	3,759,772	2,550,789	2,527.0	.678
1935	1,013,654	1,666,229	994,371	2,397,353	1,643,879	2,410.9	.686
1936	1,086,405	1,873,819	1,065,624	2,675,345	1,848,636	2,510.6	.691
1937	1,136,912	2,013,677	1,114,663	2,799,539	1,985,447	2,511.6	.700
1938	958,280	1,771,083	939,171	2,329,606	1,746,141	2,480.5	.750
1939	1,006,711	1,889,130	987,675	2,488,635	1,863,334	2,519.7	.749
1940	1,046,738	1,990,631	1,026,848	2,615,905	1,964,125	2,547.5	.751
1941	1,169,025	2,360,369	1,139,928	2,980,788	2,331,650	2,622.8	.780
1942	1,200,818	2,966,062	1,270,687	3,440,957	2,932,076	2,708.0	.852
1943	1,374,518	3,556,189	1,355,114	3,816,420	3,520,926	2,816.3	.923
1944	1,434,167	3,897,755	1,414,776	3,906,873	3,857,957	2,825.1	.965
1945	1,438,545	3,900,928	1,419,505	3,979,637	3,862,001	2,803.5	.970
1946	1,377,700	4,213,530	1,359,263	3,632,338	4,170,767	2,672.3	1,148
1947	1,370,510	4,389,296	1,351,863	3,613,296	4,352,047	2,672.8	1,204
1948	1,345,076	4,820,747	1,326,597	3,545,081	4,768,828	2,672.3	1,345
1949	1,209,102	4,468,545	1,192,019	3,018,736	4,418,790	2,532.5	1,464
1950	1,236,879	4,644,890	1,220,401	2,876,591	4,594,423	2,357.1	1,597
1951	1,292,000	5,328,072	1,275,744	2,078,870	5,272,975	2,335.0	1,770
1952	1,241,963	5,382,489	1,226,421	2,846,217	5,326,804	2,319.9	1,872
1953	1,231,300	5,380,828	1,205,966	2,777,235	5,324,951	2,302.9	1,917
1954	1,078,403	4,906,584	1,064,337	2,467,515	4,858,600	2,318.4	1,967

<sup>1</sup> Calculated for all classes of employees, including those not paid on an hourly basis.

Source: Interstate Commerce Commission; annual report: *Statistics of Railways in the United States*; 1954, *Transport Statistics in the United States*.

**No. 697.—RAILWAYS (CLASS I)—NUMBER AND COMPENSATION OF EMPLOYEES BY DISTRICTS AND BY CLASS: 1953 AND 1954**

[For years ending December 31. Includes class I switching and terminal companies]

DISTRICT OR CLASS	AVERAGE NUMBER OF EMPLOYEES		TOTAL COMPENSATION (\$1,000)		AVERAGE PER HOUR, STRAIGHT TIME		AVERAGE PER MONTH, TOTAL COMPENSATION	
	1953	1954	1953	1954	1953	1954	1953	1954
All employees.....	1,256,606	1,110,604	5,551,139	5,062,191	\$1.920	\$1.945	\$368	\$380
<b>District:</b>								
Eastern district.....	508,990	436,006	2,267,565	2,002,237	1.953	1.977	371	383
Southern district.....	230,002	209,011	997,486	931,437	1.883	1.912	361	371
Western district.....	517,605	465,587	2,286,088	2,128,517	1.905	1.930	368	381
<b>Class:</b>								
Executives, officials, and staff assistants.....	16,694	16,738	157,617	161,207	3.888	3.997	787	803
Professional, clerical, and general.....	217,269	207,807	922,921	900,322	1.964	1.985	354	361
Maintenance of way and structures.....	246,551	203,970	864,768	738,092	1.684	1.698	292	302
Maintenance of equipment and stores.....	347,782	285,993	1,401,374	1,181,522	1.906	1.913	336	344
Transportation (other than train service, engine, and yard).....	146,462	137,943	602,660	577,107	1.803	1.804	343	349
Transportation (yardmasters, switch tenders, and hostlers).....	17,052	15,923	99,244	95,562	2.135	2.191	485	500
Transportation (train and engine service).....	204,796	242,230	1,502,546	1,408,379	2.000	2.029	473	485

Source: Interstate Commerce Commission; annual report, *Wage Statistics of Class I Steam Railways in the United States*.

**No. 698.—THE ALASKA RAILROAD—SUMMARY OF PASSENGER AND FREIGHT SERVICES: 1954 AND 1955**

[For years ending June 30]

ITEM	1954	1955	ITEM	1954	1955
Road mileage operated—monthly average.....	505	505	FREIGHT TRAFFIC		
PASSENGER TRAFFIC			Freight-train miles.....	438,793	397,351
Passenger-train miles.....	279,630	246,232	All cars, 1 mile freight and mixed trains.....	1,000	
Passenger-car miles, passenger trains.....	1,192	1,047	Loaded.....	do	17,912
Total revenue passengers carried.....	135,679	126,961	Empty.....	do	10,142
Revenue passengers carried 1 mile.....	19,495	16,676	Tons of revenue freight carried:		9,786
Total passenger revenue \$1,000.....	987	833	Coal.....	749,160	676,252
Average revenue per passenger per mile..... cents	5.06	5.00	Miscellaneous.....	847,593	803,046
			Tons of revenue freight carried 1 mile.....	1,000	
			Total freight revenue \$1,000.....	267,253	250,715
			Average revenue per ton per mile..... cents	15,778	15,572
				5.90	6.21

<sup>1</sup> Including motor miles.

Source: Department of the Interior, The Alaska Railroad.

**No. 699.—RAILWAY ACCIDENTS—NUMBER OF PERSONS KILLED AND INJURED,  
BY STATUS: 1891 TO 1954**

[For years ending June 30 prior to 1916; December 31 thereafter. For various reasons, including fact that returns were required under different acts, statistics are not strictly comparable. Prior to 1921, train accidents were those causing damage to railway property in excess of \$150 or any damage and a resulting casualty. From 1921-47 they were considered as such when damage exceeded \$150 with or without a casualty; for 1948, accidents causing damages in excess of \$250, with or without a casualty, were classified as train accidents; for 1949-50, train accidents were those causing damage of \$275 or more; in 1951, \$300 or more; in 1952, \$325 or more; and beginning 1953, \$350 or more. Where damage was less than the amounts specified and there was a reportable casualty it was classified as a train-service accident. Figures for years 1911-15 include industrial and other nontrain accidents to employees only, and for years 1908-10 exclude switching and terminal roads. Otherwise, data cover all reportable accidents, including those due to suicide, mental derangement, and attempting to escape custody. See also *Historical Statistics*, series K 84-93.]

YEARLY AVERAGE OR YEAR	TOTAL		PASSENGERS <sup>1</sup>		EMPLOYEES <sup>2</sup>		OTHER PERSONS		TRESPASSERS	
	Killed	Injured	Killed	Injured	Killed	Injured	Killed	Injured	Killed	Injured
1891-1895	6,821	35,313	292	2,967	2,315	27,051	595	1,283	3,618	4,011
1896-1900	6,946	42,248	222	3,237	2,054	32,793	634	1,547	4,036	4,672
1901-1905	9,326	72,948	392	7,894	3,249	57,269	891	2,703	4,705	5,047
1906-1910	10,210	105,617	385	11,625	3,572	83,502	994	4,830	5,258	5,660
1911-1915	10,174	174,941	273	13,382	3,273	148,640	1,262	6,836	5,366	6,083
1916-1920	8,662	176,693	304	7,419	2,855	157,523	2,074	8,460	3,429	3,291
1921-1925	6,618	141,688	173	5,578	1,654	123,790	2,225	9,420	2,566	2,901
1926-1930	6,623	89,543	101	3,667	1,395	73,522	2,606	9,822	2,521	2,532
1931-1935	5,127	29,884	38	1,995	589	18,222	1,811	6,529	2,688	3,087
1936-1940	4,987	31,292	56	2,533	613	19,765	1,866	6,883	2,452	2,111
1941-1945	5,060	63,813	174	4,274	989	41,223	2,059	7,038	1,888	1,278
1946-1950	3,918	41,868	97	3,706	598	30,778	1,777	6,243	1,446	1,141
1946	4,508	52,026	128	4,714	738	39,472	1,971	6,670	1,671	1,170
1947	4,285	48,819	79	4,246	701	36,880	1,903	6,502	1,512	1,191
1948	3,883	43,107	59	3,607	622	31,961	1,726	6,409	1,476	1,130
1949	3,426	32,123	37	2,545	450	22,993	1,614	5,506	1,325	1,079
1950	3,486	33,267	180	3,419	392	22,586	1,669	6,129	1,245	1,133
1951	3,459	34,454	150	3,184	432	24,266	1,693	5,993	1,184	1,011
1952	3,011	30,001	24	2,049	386	21,339	1,522	5,669	1,079	944
1953	3,039	29,214	49	2,503	343	20,170	1,571	5,577	1,076	964
1954	2,575	25,547	30	2,247	235	17,219	1,399	5,181	911	900

<sup>1</sup> Data cover passengers on trains and travelers not on trains. Casualties sustained in nontrain accidents included with "Other persons."

<sup>2</sup> Prior to 1921 casualties sustained by employees not on duty in nontrain accidents included with "Other persons."

Source: Interstate Commerce Commission; annual report, *Accident Bulletin—Steam Railways*.

**No. 700.—ACCIDENTS AT HIGHWAY GRADE CROSSINGS (ALL RAILWAYS)—AUTOMOBILE AND TOTAL CASUALTIES: 1935 TO 1954**

[Excludes casualties due to suicide, mental derangement, and attempting to escape custody. See also headnote, table 699.]

YEAR	Number of acci- dents	ALL PERSONS		ACCIDENTS WHICH INVOLVED AUTOMOBILES		Total cas- ualties per 10,000 auto- mobiles registered
		Number killed	Number injured	Persons killed	Persons injured	
1935	3,933	1,680	4,658	1,442	4,434	2.24
1940	4,104	1,808	4,632	1,576	4,430	1.88
1941	4,320	1,931	4,885	1,670	4,667	1.85
1942	4,150	1,970	4,616	1,621	4,386	1.84
1943	3,781	1,732	4,217	1,378	3,944	1.74
1944	3,811	1,840	4,216	1,512	3,983	1.83
1945	4,100	1,903	4,446	1,577	4,126	1.86
1946	4,001	1,851	4,397	1,558	4,137	1.88
1947	4,015	1,790	4,251	1,521	4,055	1.49
1948	3,964	1,612	4,255	1,355	4,054	1.33
1949	3,523	1,507	3,774	1,307	3,607	1.11
1950	4,000	1,576	4,368	1,393	4,206	1.15
1951	3,995	1,578	4,335	1,396	4,161	1.08
1952	3,592	1,407	3,904	1,249	3,752	0.95
1953	3,675	1,494	3,815	1,319	3,688	0.90
1954	3,336	1,303	3,426	1,151	3,314	0.76

Source: Interstate Commerce Commission; annual report, *Accident Bulletin—Steam Railways*.

## No. 701.—TRANSIT INDUSTRY—SUMMARY: 1930 TO 1954

[Calendar years except as noted. Represents entire transit industry comprising all organized local passenger transportation agencies except taxicabs and suburban railroads. Based on financial and statistical reports received by American Transit Association from transit companies representing 85 to 95 percent of the industry]

ITEM	1930	1935	1940	1945	1950	1951	1952	1953	1954
<b>Miles of route operated (Dec. 31):</b>									
Electric railway—miles of single track	35,400	26,700	19,602	17,702	10,813	9,457	8,532	7,352	6,765
Surface	34,320	25,470	18,360	16,480	9,590	8,240	7,309	6,126	5,547
Subway and elevated	1,080	1,230	1,242	1,222	1,223	1,217	1,223	1,226	1,218
Trolley coach—miles of negative overhead wire	146	548	1,925	2,818	3,513	3,678	3,736	3,663	3,630
Motorbus—miles of route round trip	60,900	58,100	78,000	90,400	98,000	99,700	99,600	100,000	99,000
<b>Passenger vehicles owned (Dec. 31), total:</b>									
Electric railway cars	86,263	74,844	75,404	89,758	86,310	85,335	82,336	78,875	76,198
Surface	64,700	50,466	37,662	36,377	22,986	20,604	19,176	17,234	15,600
Subway and elevated	55,150	40,050	29,630	26,180	13,228	10,960	9,700	7,690	6,400
Trolley coaches	9,640	10,416	11,032	10,217	9,758	9,644	9,476	9,244	9,200
Motorbuses	21,300	23,800	35,000	49,670	56,820	57,660	55,980	54,700	54,000
<b>Investment (Dec. 31), total millions:</b>									
Electric railway	(1)	(1)	\$4,096	\$4,262	\$3,018	\$3,899	\$3,910	\$3,900	\$3,863
do	(1)	(1)	3,588	3,620	3,060	2,997	2,992	2,980	2,942
Surface	(1)	(1)	1,574	1,570	913	811	801	780	692
Subway and elevated	(1)	(1)	2,014	2,050	2,147	2,186	2,191	2,200	2,250
Trolley coach	(1)	(1)	58	76	144	162	172	170	165
Motorbus	(1)	(1)	450	566	714	740	746	750	756
<b>Operating revenues, total:</b>									
Electric railway	\$963	\$681	\$737	\$1,380	\$1,452	\$1,473	\$1,501	\$1,513	\$1,472
do	803	520	456	709	578	534	494	490	473
Surface	649	388	328	560	362	319	280	251	204
Subway and elevated	154	132	128	149	216	215	214	239	269
Trolley coach	2	5	25	68	122	132	147	151	142
Motorbus	158	166	256	603	782	807	800	872	857
<b>Vehicle miles operated, total:</b>									
Electric railway	2,707	2,327	2,596	3,254	3,007	2,913	2,814	2,696	2,549
do	1,995	1,544	1,316	1,398	906	811	721	665	591
Surface	1,540	1,097	845	940	463	387	321	274	216
Subway and elevated	455	447	471	458	443	424	400	391	375
Trolley coach	6	19	86	133	206	209	215	219	197
Motorbus	706	764	1,194	1,723	1,895	1,893	1,878	1,819	1,761
<b>Passengers carried, total:</b>									
Electric railway	15,557	12,226	13,098	23,254	17,246	16,125	15,119	13,902	12,392
do	13,072	9,512	8,325	12,124	6,168	5,290	4,601	4,076	3,401
Surface	10,513	7,276	5,943	9,426	3,904	3,101	2,477	2,036	1,489
Subway and elevated	2,559	2,236	2,382	2,698	2,264	2,189	2,124	2,040	1,912
Trolley coach	16	96	534	1,244	1,658	1,633	1,640	1,586	1,367
Motorbus	2,479	2,618	4,239	9,586	9,420	9,202	8,878	8,260	7,624
<b>Revenue passengers carried, total:</b>									
Electric railway	12,528	9,782	10,504	18,982	13,845	12,881	12,022	11,036	9,858
do	10,346	7,408	6,465	9,636	4,903	4,212	3,696	3,306	2,820
Surface	7,782	5,156	4,183	7,081	2,790	2,171	1,714	1,403	1,053
Subway and elevated	2,554	2,252	2,282	2,555	2,113	2,041	1,982	1,803	1,767
Trolley coach	13	77	419	1,001	1,261	1,231	1,201	1,137	993
Motorbus	2,169	2,297	3,620	8,345	7,681	7,438	7,126	6,593	6,045
<b>Number of employees (average), total:</b>									
Electric railway	276,444	209,200	202,400	242,000	240,000	232,000	227,000	220,000	211,000
do	247,244	164,400	122,500	129,200	90,900	81,000	82,000	75,000	71,000
Trolley coach	400	1,300	6,400	8,500	15,400	16,500	18,000	19,000	18,000
Motorbus	28,800	43,500	73,500	104,300	133,700	134,500	127,000	126,000	122,000
<b>Payroll, total millions:</b>									
	\$479	\$321	\$360	\$632	\$835	\$872	\$903	\$913	\$895

<sup>1</sup> Not available.

Source: American Transit Association, New York, N. Y.; annual report, *Transit Fact Book*.

## No. 702.—MOTORBUS LINES—SUMMARY OF OPERATIONS OF COMMON CARRIERS AND SCHOOL BUSES: 1949 to 1955

ITEM	1949	1950	1951	1952	1953	1954	1955
<b>COMMON CARRIER BUS OPERATIONS</b>							
Number of operating companies (Dec. 31):							
City and city suburban	1,740	1,638	1,676	1,626	1,550	1,575	1,575
Intercity	3,060	2,858	2,914	2,847	2,650	2,625	2,600
Number of buses (Dec. 31):							
City and city suburban	57,800	57,570	58,364	56,456	56,400	55,700	55,200
Intercity	30,200	28,711	29,266	28,563	28,500	27,800	27,200
Miles of highway covered (Dec. 31): <sup>1</sup>							
City and city suburban	54,000	53,310	59,680	54,220	60,300	61,700	60,600
Intercity	416,500	400,284	438,447	439,436	404,500	398,300	410,000
Total bus miles (millions):							
City and city suburban	1,787	1,882	1,782	1,877	1,831	1,743	1,711
Intercity	1,598	1,500	1,438	1,480	1,527	1,436	1,375
Revenue passengers, line service (millions):							
City and city suburban <sup>2</sup>	8,502	7,750	7,550	7,138	6,658	6,125	5,758
Intercity	855	815	908	779	750	669	612
Operating revenue (\$1,000):							
City and city suburban	786,351	798,033	810,787	888,577	912,560	893,405	880,087
Intercity	537,575	510,815	541,853	575,676	569,867	530,312	527,660
Taxes assignable to operations (\$1,000): <sup>3</sup>							
City and city suburban	56,556	62,025	58,914	76,684	74,795	77,100	76,259
Intercity	42,880	42,508	42,578	45,518	44,235	42,530	43,678
Net operating revenue (\$1,000):							
City and city suburban	-5,908	8,540	22,829	17,150	19,206	15,653	21,597
Intercity	39,912	37,962	41,409	50,564	51,842	34,619	36,182
Number of employees (Dec. 31): <sup>4</sup>							
City and city suburban	125,696	129,043	128,850	124,425	123,900	121,200	115,600
Intercity	66,749	66,570	62,676	62,790	62,100	61,200	58,417
<b>SCHOOL BUS OPERATIONS</b>							
Number of schools and school districts using buses	45,300	43,813	43,649	41,208	45,480	45,266	44,233
Number of buses	97,600	104,179	105,594	110,347	130,508	134,972	137,552
Total bus-miles millions			690	1,120	1,028	1,089	1,148
Children carried daily	1,000	5,720	6,264	6,410	7,064	7,950	8,499
Cost of service annually \$1,000	177,532	180,183	207,718	239,385	267,578	205,718	312,730

<sup>1</sup> Includes duplication between carriers. <sup>2</sup> Includes revenue transfer passengers. <sup>3</sup> Excludes income taxes.<sup>4</sup> Operating companies only.

## No. 703.—TROLLEY BUS AND ELECTRIC RAIL LINES—SUMMARY OF OPERATIONS: 1949 TO 1955

ITEM	1949	1950	1951	1952	1953	1954	1955
<b>TROLLEY BUS LINES</b>							
Number of companies (Dec. 31)	42	42	43	41	41	41	39
Number of buses owned (Dec. 31)	6,355	6,497	7,050	7,182	6,058	6,824	6,623
Miles of street (Dec. 31)	1,425	1,457	1,496	1,487	1,487	1,487	1,328
Total bus-miles millions	176	192	206	210	210	196	184
Revenue passengers <sup>1</sup> do	1,149	1,198	1,226	1,205	1,135	1,034	937
Operating revenue \$1,000	102,724	121,960	131,850	145,500	148,428	141,320	132,134
Taxes assignable to operations <sup>2</sup> do	4,581	4,912	5,343	7,350	7,210	7,047	6,605
Net operating revenue do	11,372	15,384	15,828	15,438	14,300	9,760	8,751
Number of employees on payroll	15,570	15,650	16,350	16,742	16,220	15,980	15,400
<b>ELECTRIC RAIL OPERATIONS</b>							
Number of companies	101	88	81	74	69	70	64
Number of cars owned	15,505	13,228	10,960	9,700	7,990	15,600	15,250
Miles of single track	10,700	9,500	8,240	7,309	6,126	6,665	5,918
Miles of first main track	5,707	5,110	4,407	3,872	3,485	3,712	3,174
Operating revenue \$1,000	410,500	361,700	318,900	279,700	250,000	473,400	450,974
Revenue passengers millions	3,480	2,790	2,171	1,714	1,403	2,820	2,633
Revenue-miles operated do	555	463	387	321	274	591	556

<sup>1</sup> Includes revenue transfer passengers. <sup>2</sup> Excludes income taxes.Source of tables 702 and 703: McGraw-Hill Publishing Co., Inc., New York, N. Y.; *Bus Transportation, Annual Review of Industry Progress Number*.

**No. 704.—CLASS I INTERCITY MOTOR CARRIERS OF PROPERTY—SUMMARY OF FINANCIAL AND OPERATING STATISTICS: 1945 TO 1953**

[All money figures in thousands of dollars, except revenue and expense per vehicle-mile. Covers common and contract carriers with average annual operating revenues of \$200,000 or more beginning 1950, and for prior years \$100,000 or more, engaged wholly or preponderantly in intercity service subject to jurisdiction of ICC; excludes carriers engaged in transportation of both property and passengers]

ITEM	1945	1950	1951	1952	1953
Number of carriers reporting.....	1,445	1,621	1,737	1,868	2,027
Investment in carrier operating property.....	258,578	747,756	904,031	1,026,249	1,190,650
Reserve for depreciation and amortization.....	134,905	309,430	391,462	475,444	568,048
Income statement:					
Operating revenue, total.....	746,394	2,379,713	2,727,854	3,059,069	3,493,326
Common carrier.....	675,678	2,180,779	2,500,719	2,803,310	3,176,418
Contract carrier.....	53,992	143,771	161,925	180,553	229,642
Other operating revenue.....	16,724	55,164	65,210	75,206	87,271
Expenses, total.....	745,002	2,215,006	2,603,325	2,923,993	3,360,302
Operation and maintenance expenses.....	588,140	1,968,080	2,289,344	2,658,381	3,057,334
Depreciation and amortization <sup>1</sup> .....	28,348	84,497	107,028	117,562	138,043
Operating taxes and licenses <sup>2</sup> .....	49,901	103,408	124,178	147,499	169,425
Operating rents, net.....	78,613	59,012	82,775		
Operating ratio (percent expenses of operating revenue).....	99.8	93.1	95.4	95.6	96.2
Net operating revenue.....	1,302	164,707	124,529	135,076	133,024
Lease of distinct operating unit—Net.....	256	540	877	798	661
Other income, less income deductions.....	499	5,603	7,476	7,521	15,392
Net income before income taxes.....	1,656	158,565	116,176	126,758	119,071
Net income after income taxes.....	2,227	92,682	57,535	67,081	60,193
Dividend appropriations and withdrawals.....	10,473	23,482	23,247	22,849	25,311
Operating statistics and averages:					
Owned revenue vehicles, total.....	100,165	101,243	212,730	220,198	251,437
InterCity vehicle-miles.....	2,165	5,352	5,848	6,137	6,802
Tons of intercity revenue freight carried <sup>4</sup> .....	1,000	108,017	212,997	286,828	243,418
Miles per owned vehicle.....	43,355	53,833	60,134	48,805	50,010
Revenue per vehicle-mile (intercity).....	\$0.337	\$0.434	\$0.455	\$0.486	\$0.501
Expense per vehicle-mile (intercity) <sup>5</sup> .....	\$0.344	\$0.414	\$0.445	\$0.476	\$0.494

<sup>1</sup> Amortization represents a very small part of this total.

<sup>2</sup> Excludes Federal and State income taxes.

<sup>3</sup> Withdrawals of sole proprietors and partners.

<sup>4</sup> Includes duplications on account of tonnage received from connecting motor carriers.

<sup>5</sup> Basic figures include expenses of operating vehicles in local services not available separately.

**No. 705.—CLASS I INTERCITY MOTOR CARRIERS OF PROPERTY—SELECTED OPERATING STATISTICS, BY REGIONS: 1952 AND 1953**

[See headnote, table 704. Regions: 1, Conn., Maine, Mass., N. H., R. I., Vt.; 2, Del., D. C., Md., N. J., N. Y., Pa., W. Va.; 3, Ill., Ind., Mich. (Lower Pen.), Ohio; 4, Ala., Fla., Ga., Ky., Miss., N. C., S. C., Tenn., Va.; 5, Mich. (Upper Pen.), Minn., N. Dak., S. Dak., Wis.; 6, Iowa, Kans., Mo., Nebr.; 7, Ark., La., Okla., Tex.; 8, Colo., Idaho, Mont., N. Mex., Utah, Wyo.; 9, Ariz., Calif., Nev., Oreg., Wash.]

REGION AND YEAR	Num- ber of carriers report- ing	Operat- ing revenue (\$1,000)	Total expenses (\$1,000)	OWNED REVENUE VEHICLES <sup>1</sup>				Vehicle- miles, total in- tercity service (1,000)	EMPLOYEES <sup>2</sup>	
				Trucks	Truck- tractors	Semi- trailers	Full trailers		Average	Com- pen- sation (\$1,000)
1952										
1. New England.....	1,868	3,059,069	2,923,993	32,119	73,743	118,265	5,071	6,137,228	277,353	1,198,086
2. Middle Atlantic.....	163	146,802	140,314	2,644	4,933	7,739	40	212,756	16,557	70,538
3. Central.....	440	540,354	519,719	5,719	15,682	23,924	141	937,546	52,363	222,307
4. Southern.....	439	1,070,460	1,021,937	5,147	21,706	39,055	1,426	2,242,152	84,994	386,338
5. Northwestern.....	84	109,272	116,076	1,441	3,606	5,123	-----	836,170	35,493	135,666
6. Midwestern.....	120	120,100	197,759	2,214	4,849	7,628	65	225,903	12,834	55,781
7. Southwestern.....	130	205,103	204,591	3,669	6,226	8,311	69	484,723	21,348	86,276
8. Rocky Mountain.....	54	215,634	102,201	1,420	1,621	2,536	305	232,040	9,155	39,534
9. Pacific.....	170	282,558	270,725	5,550	5,206	8,507	3,025	497,663	25,430	121,073
1953										
1. New England.....	2,027	3,493,326	3,360,302	34,270	80,328	131,573	5,266	6,802,158	306,678	1,417,770
2. Middle Atlantic.....	172	158,614	155,951	2,697	5,195	8,121	45	219,912	17,780	79,188
3. Central.....	471	624,453	602,903	6,048	16,797	26,379	182	1,051,560	57,625	262,527
4. Southern.....	525	1,216,569	1,172,064	5,700	23,821	43,164	1,344	2,465,487	96,196	470,010
5. Northwestern.....	88	132,843	129,041	1,512	3,680	5,441	1	248,105	13,477	62,688
6. Midwestern.....	133	241,106	230,601	2,184	5,101	8,302	90	538,142	19,400	88,696
7. Southwestern.....	139	249,558	238,819	3,886	6,863	9,223	47	545,385	24,355	103,963
8. Rocky Mountain.....	59	132,711	123,847	1,651	2,149	3,625	339	271,264	10,776	50,056
9. Pacific.....	189	305,365	292,442	5,743	5,665	9,655	3,154	528,821	26,203	181,908

<sup>1</sup> Excludes equipment used under lease, including operations conducted under "purchased transportation" arrangements.

<sup>2</sup> Excludes drivers of equipment engaged by these carriers to perform "purchased transportation" service.

Source of tables 704 and 705: Interstate Commerce Commission; annual report, *Statistics of Class I Motor Carriers*.

No. 706.—CLASS I INTERCITY MOTOR CARRIERS OF PASSENGERS—SUMMARY OF FINANCIAL AND OPERATING STATISTICS: 1945 TO 1953

[All money figures in thousands of dollars, except average fare and revenue and expense per vehicle-mile. See headnote, table 704. Excludes carriers subject to ICC jurisdiction engaged preponderantly in local or suburban service and carriers engaged in transportation of both property and passengers]

ITEM	1945	1950	1951	1952	1953
Number of carriers reporting	231	172	166	160	161
Investment in carrier operating property	153,477	286,000	310,854	321,543	339,695
Reserve for depreciation and amortization	81,103	144,489	158,751	174,404	186,031
Income statement:					
Operating revenue, total	377,933	350,751	392,579	394,968	394,562
Passenger revenue <sup>1</sup>	364,769	324,529	360,964	357,812	351,791
Special bus revenue	5,381	11,694	14,848	18,556	21,991
Other operating revenue	7,783	14,528	16,767	18,600	20,780
Expenses, total	264,934	314,773	345,405	347,589	353,641
Operation and maintenance expenses	214,224	254,905	284,075	284,494	283,050
Depreciation and amortization <sup>2</sup>	17,336	27,188	26,281	26,665	24,705
Operating taxes and licenses <sup>3</sup>	26,846	28,649	30,737	31,760	31,491
Operating rents, net	6,528	4,030	4,312	4,669	4,395
Operating ratio (percent expenses of operating revenue)	70.1	89.7	87.9	88.0	89.6
Net operating revenue	112,999	35,978	47,174	47,379	40,921
Lease of carrier property, net	569	100	62	10	19
Other income, less income deductions	2,078	756	3,225	780	446
Net income before income taxes	110,364	35,121	50,347	46,588	40,457
Net income after income taxes	32,246	18,908	25,448	22,284	18,105
Dividend appropriations and withdrawals <sup>4</sup>	18,599	16,088	21,114	26,405	27,733
Operating statistics and averages:					
Passenger vehicles owned <sup>5</sup>		12,865	13,200	13,431	13,106
Vehicle-miles of owned and leased passenger vehicles, total <sup>6</sup>	1,000	930,561	958,530	1,010,741	975,467
Number of revenue passengers carried, total	do	564,444	389,898	391,107	358,755
Miles per vehicle <sup>7</sup>		71,429	75,411	66,884	66,934
Average fare per passenger, per carrier, intercity service	\$0.793	\$1.010	\$1.118	\$1.198	\$1.243
Passenger revenue per vehicle-mile, regular route intercity	\$0.401	\$0.346	\$0.367	\$0.380	\$0.376
Expense per vehicle-mile <sup>8</sup>	\$0.285	\$0.328	\$0.341	\$0.356	\$0.363

<sup>1</sup> Regular route intercity and local revenue.

<sup>2</sup> Excludes Federal and State income taxes.

<sup>3</sup> Total vehicles owned at close of year.

<sup>4</sup> Includes bus-miles of vehicles operated under "purchased transportation" arrangements.

<sup>5</sup> Amortization represents a very small part of this total.

<sup>6</sup> Withdrawals of sole proprietors and partners.

<sup>7</sup> Includes bus-miles of vehicles operated under "purchased transportation" arrangements.

<sup>8</sup> Averages for owned and leased vehicles.

<sup>9</sup> See footnote 5, table 704.

No. 707.—CLASS I INTERCITY MOTOR CARRIERS OF PASSENGERS—SELECTED OPERATING STATISTICS, BY REGIONS: 1952 AND 1953

[See headnote, table 706; for description of regions, see headnote, table 705]

REGION AND YEAR	Number of carriers reporting	Operating revenue (\$1,000)	Total expenses (\$1,000)	PASSENGER VEHICLES		REGULAR-ROUTE INTERCITY			EMPLOYEES	
				Total <sup>1</sup>	Inter-city <sup>2</sup>	Vehicle-miles (1,000)	Revenue passengers carried (1,000)	Average fare per passenger, per carrier	Average number	Compensation (\$1,000)
1952	160	394,968	347,589	14,551	13,658	896,514	284,155	\$1.198	40,080	159,196
1. New England	10	8,954	8,810	424	408	18,488	7,345	.991	1,040	4,060
2. Middle Atlantic	34	42,418	40,856	1,785	1,558	78,561	48,138	.665	4,583	18,009
3. Central	30	84,192	75,445	2,912	2,605	179,609	55,894	1,290	8,351	34,027
4. Southern	31	103,336	86,148	3,549	3,492	243,282	88,187	1,063	10,124	38,015
5. Northwestern	3	14,582	13,711	537	537	34,759	9,096	4,171	1,486	6,340
6. Midwestern	6	15,875	13,058	515	515	38,770	6,974	2,051	1,678	6,991
7. Southwestern	26	69,989	61,701	2,820	2,819	188,736	42,901	1,465	7,248	28,027
8. Rocky Mountain	8	4,579	4,012	240	239	11,372	2,185	1,778	449	1,848
9. Pacific	12	51,042	43,848	1,769	1,485	102,937	23,436	1,767	5,121	21,880
1953	161	394,562	353,641	14,329	13,372	882,387	266,743	1,243	40,063	168,029
1. New England	10	8,255	8,288	387	378	13,255	6,078	1,113	970	3,958
2. Middle Atlantic	35	46,245	44,549	1,900	1,626	80,503	49,193	.686	4,918	20,296
3. Central	31	80,882	73,565	2,836	2,502	170,474	51,716	1,313	8,017	34,475
4. Southern	32	99,973	84,563	3,421	3,384	232,734	78,668	1,129	9,791	38,667
5. Northwestern	3	14,163	13,376	523	523	33,268	8,276	1,445	1,448	6,509
6. Midwestern	5	18,933	17,454	577	577	44,393	8,851	1,903	1,942	8,425
7. Southwestern	26	65,113	59,406	2,801	2,770	179,885	37,074	1,544	6,905	28,124
8. Rocky Mountain	8	4,228	3,824	264	263	10,020	1,954	1,817	437	1,837
9. Pacific	11	56,770	48,616	1,620	1,349	112,915	24,933	1,795	5,635	25,738

<sup>1</sup> Comprises average number operated in intercity service during year and number owned in local operations at close of year.

<sup>2</sup> Comprises vehicles owned, leased, and operated under "purchased transportation" arrangements, operated in intercity revenue service.

Source of tables 706 and 707: Interstate Commerce Commission; annual report, *Statistics of Class I Motor Carriers*.

## No. 708.—CIVIL AERONAUTICS—SUMMARY OF CIVIL FLYING: 1934 TO 1955

[As of Dec. 31 or for year ending Dec. 31, except as noted. See also *Historical Statistics*, series K 246-273]

ITEM	1934	1940	1945	1950	1953	1954	1955
Miles of civil airways: <sup>1,2</sup>							
Equipped with low/medium frequency radio aids	19,081	32,100	43,285	70,253	72,097	60,359	67,779
Equipped with very high frequency radio aids							
Total civil aircraft <sup>1</sup>	8,322	17,928	37,789	89,209	89,102	89,207	85,320
Hours flown <sup>1</sup>	1,000	840	3,200	(8)	9,650	8,527	8,963
Certified airplane pilots	13,949	69,829	296,895	(9)	585,974	613,695	(9)
Miles flown <sup>1</sup>	1,000	75,602	264,000	(5)	671,061,500	7,045,346	7,119,295
Instructional	17,360	126,264	(5)		6286,600	120,700	124,290
Commercial <sup>3</sup>	20,980	31,961	(5)		6180,500	10,208,937	226,240
Business <sup>4</sup>	11,697	25,910	(5)		6389,700	499,166	552,610
Pleasure	25,565	79,865	(5)		6244,100	196,174	208,980
Fuel consumed: <sup>4</sup>							
Gasoline	1,000 gal.	9,681	22,400	(5)	6131,200	168,948	176,649
Oil	do	349	660	(5)	62,916	3,754	3,926
Radio range stations <sup>1,2</sup>	112	202	360	749	760	749	768
Low/medium frequency	112	290	344	378	368	348	344
Very high frequency		2	16	371	302	403	424
Nondirectional radio beacons <sup>1,2</sup>	73	48	88	141	181	170	175
Airport towers <sup>1,2</sup>			107	172	115	104	100
Air route centers <sup>1,2</sup>		11	29	31	31	31	31
Combined tower stations <sup>2</sup>					53	70	75
Interstate airways communications stations <sup>2</sup>	205	365	438	451	395	376	364
Airports in operation <sup>1,2</sup>	2,207	2,331	4,026	6,403	18 6,760	6,977	6,839
Public <sup>14</sup>					2,903	2,783	2,713
Limited <sup>14</sup>					3,857	4,194	4,126
Total accidents <sup>15</sup>	1,401	3,471	4,652	4,505	3,232	3,380	3,308
Fatalities	328	350	508	871	635	684	613

<sup>1</sup> Continental United States, and Territories and possessions wherever applicable. <sup>2</sup> Federal airways.<sup>3</sup> Active and inactive. Includes gliders. <sup>4</sup> Excludes all aircraft operated by scheduled airlines and by CAA.<sup>5</sup> Not available. <sup>6</sup> Data statistically computed from trend since no formal survey was conducted.<sup>7</sup> Includes 10,600,000 miles not classified for 1950, 19,369,000 for 1953, 6,175,000 for 1954.<sup>8</sup> Excludes military flight instruction by civil contractors.<sup>9</sup> Includes contract, charter, industrial, and commercial agricultural flying.<sup>10</sup> Military contract flying excluded.<sup>11</sup> Includes flying for corporate or executive purposes as well as flying by individuals, including farmers and ranchers, on personal business.<sup>12</sup> Data cover existing airports and airfields recorded with CAA. Beginning 1953, "limited" includes seaplane bases and heliports.<sup>13</sup> As of March 1, 1954. <sup>14</sup> See footnote 4, table 716 for current definitions.<sup>15</sup> In non-air-carrier flying operations.Source: Department of Commerce, Civil Aeronautics Administration, and Civil Aeronautics Board. Published in *CAA Statistical Handbook of Civil Aviation*.

## No. 709.—CIVIL AERONAUTICS—SCHEDULED AIR CARRIER OPERATING REVENUES AND EXPENSES: 1945 TO 1954

[In thousands of dollars]

ITEM	DOMESTIC AIR CARRIERS				INTERNATIONAL AIR CARRIERS			
	1945	1950	1953	1954	1945	1950	1953	1954
Net operating income	34,117	63,158	87,032	101,211	7,346	11,808	10,221	26,144
Operating revenues, total	214,743	557,803	937,482	1,042,793	69,111	260,131	337,711	359,044
Passenger	166,520	444,506	803,869	905,840	38,839	160,672	232,867	254,325
Mail	33,694	63,788	64,484	65,726	12,246	55,689	53,746	49,190
Express and freight	10,835	35,122	47,791	49,901	7,315	21,664	27,385	29,780
Excess baggage	2,298	5,077	8,704	10,632	1,571	3,244	5,248	6,991
Other	1,397	9,310	12,622	10,680	9,120	18,862	18,454	18,752
Operating expenses, total	180,626	494,645	850,448	941,582	61,765	248,323	318,489	332,903
Aircraft	69,223	241,000	438,088	487,380	22,918	122,776	151,311	157,469
Flying operations	43,421	141,816	253,091	279,970	15,297	70,980	91,751	98,857
Direct maintenance flight equipment	16,303	57,841	102,401	110,299	5,199	26,158	32,827	30,812
Depreciation flight equipment	9,409	41,403	82,596	97,106	2,422	25,638	26,730	27,799
Ground and indirect expense	111,403	253,585	412,356	454,200	38,847	125,547	167,178	175,430

Source: Department of Commerce, Civil Aeronautics Administration, and Civil Aeronautics Board. Published in *CAA Statistical Handbook of Civil Aviation*.

No. 710.—CIVIL AERONAUTICS—SUMMARY OF SCHEDULED AIR CARRIER OPERATIONS:  
1934 TO 1955[As of Dec. 31 or for year ending Dec. 31. See also *Historical Statistics*, series K 246-273]

ITEM	1934	1940	1945	1950	1953	1954	1955	
Number of operators:								
Domestic	24	19	20	38	32	32	31	
International	2	3	4	12	14	15	15	
Route miles in operation	50,801	95,079	87,401	183,841	190,210	190,782	192,967	
Domestic <sup>1</sup>	28,609	42,757	48,516	77,440	78,384	78,204	78,962	
International <sup>2</sup>	22,192	52,322	38,885	106,401	111,826	112,488	114,005	
Aircraft in service	522	437	518	1,120	1,300	1,336	1,359	
Domestic	423	369	421	960	1,139	1,175	1,212	
Single-engine			11	29	17	20	19	
Twin-engine			405	571	660	648	645	
Four-engine			5	360	462	507	548	
International	90	68	97	160	161	161	147	
Twin-engine			71	35	38	32	23	
Four-engine			26	125	123	120	124	
Average available seats: <sup>3</sup>								
Domestic	8.86	16.54	19.03	37.47	46.07	50.06	51.51	
International	(4)	18.28	18.91	40.96	52.28	56.85	57.02	
Average speed (miles per hour):								
Domestic	(4)	(4)	155.4	181.2	197.8	205.8	209.0	
International	(4)	(4)	180.7	218.4	229.9	242.1	245.4	
Fuel consumed:								
Gasoline.....1,000 gal.	25,136	74,535	159,911	572,246	880,639	980,706	1,142,274	
Domestic.....do	18,925	65,675	134,824	418,442	601,903	775,586	904,763	
International.....do	6,211	8,860	25,087	153,804	188,736	205,120	237,511	
Oil.....do	839	1,288	2,025	6,675	10,067	11,587	13,832	
Domestic.....do	669	1,104	1,710	5,007	7,975	9,348	11,311	
International.....do	170	184	316	1,668	2,002	2,239	2,521	
Total personnel employed	6,477	22,051	68,281	82,786	100,392	100,541	122,121	
Domestic	4,201	15,984	50,313	61,903	84,651	84,765	95,466	
International	2,276	6,067	17,968	20,883	24,741	24,776	26,655	
Revenue miles flown (all services)								
1,000	49,065	119,753	241,578	458,087	628,584	667,316	751,322	
Domestic.....do	41,520	110,101	208,969	364,256	518,532	550,648	619,796	
International.....do	7,539	9,652	32,009	93,831	110,052	116,668	131,536	
Revenue passengers carried do	5 572	2,965	7,082	19,019	31,423	35,218	41,441	
Domestic.....do	5 475	2,803	6,576	17,344	28,723	32,343	38,026	
International.....do	97	163	476	1,075	2,700	2,875	3,415	
Revenue passenger-miles flown, domestic	1,000	7 189,806	1,052,156	3,302,455	8,002,825	14,760,309	16,768,706	19,819,221
Average passenger-mile rate, domestic	\$0.059	\$0.0507	\$0.0495	\$0.0555	\$0.0545	\$0.0540	(4)	
Express and freight, ton-miles flown								
1,000	(4)	(4)	30,914	211,014	252,731	270,603	318,980	
Domestic.....do	5 597	3,476	22,197	151,351	177,932	188,271	228,011	
International.....do	(4)	(4)	8,718	60,563	74,800	82,332	90,909	
Mail, ton-miles flown:								
Domestic.....do	5 2,237	10,118	10 65,003	47,000	72,908	81,500	87,445	
Accidents, domestic: <sup>11</sup>								
Number of accidents	71	30	40	39	37	49	45	
Revenue miles flown per accident	1,000	585	3,684	5,234	9,859	14,504	11,520	14,236
Total fatalities	29	45	88	109	109	103	23	179
Fatalities per 1,000,000 revenue miles flown	0.70	0.41	0.42	0.28	0.19	0.04	0.28	
Accidents, international: <sup>11</sup>								
Number of accidents	2	6	5	6	6	5	5	5
Revenue miles flown per accident	1,000	3,770	1,609	6,522	15,986	10,750	24,460	20,084
Total fatalities	9	27	56	56	2	0	0	4
Fatalities per 1,000,000 revenue miles flown	1.19		0.83	0.58	0.02			0.03

<sup>1</sup> 1934 as of Dec. 31; 1940 and 1945, averages for December; and 1950-55, based on fourth quarter.<sup>2</sup> 1934 and 1940, as of Dec. 31; 1945, average for December; and 1950-55, based on fourth quarter.<sup>3</sup> Obtained by dividing passenger seat miles by revenue miles flown in passenger service.<sup>4</sup> Not available.<sup>5</sup> Data for domestic passengers include duplication.<sup>6</sup> Includes nonrevenue passengers.<sup>7</sup> Includes nonrevenue miles.<sup>8</sup> Excludes Colonial Airlines, Inc., and Hawaiian Airlines, Ltd.<sup>9</sup> Excludes 224,236 ton-miles flown by U. S. Army.<sup>10</sup> Excludes regular mail carried under special contract.<sup>11</sup> Revenue operations accidents.

## No. 711.—DOMESTIC AIR CARGO—TON-MILES FLOWN, BY TYPE OF CARRIER: 1948 TO 1955

[In thousands of ton-miles]

TYPE OF CARRIER	1948	1949	1950	1951	1952	1953	1954	1955
Total	150,767	174,481	229,039	239,811	260,477	276,438	280,309	345,632
Scheduled operations	100,661	132,816	209,138	217,280	241,343	251,007	244,704	315,227
Nonscheduled operations	50,106	41,665	19,901	22,031	19,134	25,431	35,805	30,405
Trunk lines:								
Scheduled operations	100,207	121,519	149,300	140,841	157,503	174,203	184,398	223,571
Nonscheduled operations	333	1,402	1,591	1,493	(2)	(2)	(2)	(2)
Local service lines:								
Scheduled operations	454	756	1,310	1,829	2,010	2,136	2,217	2,854
Nonscheduled operations	1	(2)	19	26	(2)	(2)	(2)	(2)
Certified all-cargo carriers:								
Scheduled operations		10,541	58,420	74,610	81,820	74,570	58,089	88,802
Nonscheduled operations	38,567	27,093	5,178	4,446	4,618	7,344	10,708	12,080
Large irregular carriers:								
Nonscheduled operations	11,204	13,170	13,113	16,066	14,516	18,086	24,837	18,325

<sup>1</sup> Estimate based on 1950 actual figures.<sup>2</sup> Not available.<sup>3</sup> Less than 500.<sup>4</sup> Estimated on basis of available data.Source: Department of Commerce, Civil Aeronautics Administration; *CAA Statistical Handbook of Civil Aviation*.

## No. 712.—CIVIL AIRPLANE OUTPUT, BY POWER AND TYPE: 1948 TO 1955

ITEM	1948	1949	1950	1951	1952	1953	1954	1955
Airplanes produced	7,302	3,545	3,520	2,477	3,500	4,134	3,389	4,820
Under 3,000 lbs. airframe weight	7,039	3,379	3,381	2,270	3,057	3,825	3,098	4,575
3,000 lbs. airframe weight and over	263	166	120	108	452	309	201	245
Airframe weight, total	10,083	6,744	5,961	5,111	9,532	10,769	10,494	10,231
Value of complete units, total \$1,000	114,207	121,447	100,097	88,844	197,151	244,418	295,738	271,250
Airplanes produced, by size:								
1- and 2-place	3,302	906	1,029	614	544	753	2,982	4,372
3- to 5-place	3,737	2,383	2,362	1,661	2,512	3,069	312	407
Over 5-place	263	166	120	202	453	312	407	448
Airplanes produced, by horsepower: <sup>1</sup>								
1 to 99	2,990	930	597	150	85	100	2,968	4,216
100 to 399	4,026	2,441	2,789	2,123	2,971	3,722	312	421
400 and over	286	174	134	204	453	728	004	004

<sup>1</sup> Total rated horsepower of all engines.

## No. 713.—CIVIL AIRCRAFT EXPORTS: 1948 TO 1955

ITEM	1948	1949	1950	1951	1952	1953	1954	1955
NUMBER								
New fixed-wing aircraft	1,026	562	450	566	840	863	630	848
Passenger transports	91	52	48	26	25	87	110	95
Utility aircraft	935	510	408	540	815	776	529	749
Commercial and civilian, n. e. c. <sup>1</sup>								4
Used and surplus utility planes <sup>2</sup>	202	288	262	300	303	410	340	800
Rebuilt, including converted	47	31	38	28	37	98	74	66
Rotary-wing aircraft	460	106	205	304	551	347	728	807
New air-cooled reciprocating engines <sup>3</sup>								
VALUE (\$1,000)								
New fixed-wing aircraft	41,536	25,165	42,697	16,851	23,715	84,646	97,514	88,574
Passenger transports	37,395	22,373	40,444	13,230	18,161	79,176	93,010	81,144
Utility aircraft	4,141	2,702	2,253	3,621	5,554	5,470	4,504	7,422
Commercial and civilian, n. e. c. <sup>1</sup>								8
Used and surplus utility planes <sup>2</sup>	652	819	606	856	1,494	1,484	1,178	37,185
Rebuilt including converted								
Rotary-wing aircraft	1,933	1,181	984	899	1,411	4,873	4,044	4,165
New air-cooled reciprocating engines <sup>3</sup>	320	112	201	509	942	708	1,516	2,016

<sup>1</sup> "N. e. c." means not elsewhere classified.<sup>2</sup> Through 1954, excludes those of 3,000 pounds and over, empty airframe weight.<sup>3</sup> Excludes those of 400 horsepower and over.Source of tables 712 and 713: Department of Commerce, Civil Aeronautics Administration and Bureau of the Census. Published in *CAA Statistical Handbook of Civil Aviation*.

## No. 714.—DOMESTIC SCHEDULED AIR CARRIER PERSONNEL: 1934 TO 1955

TYPE OF PERSONNEL	1934	1940	1945	1950	1952	1953	1954	1955
Total.....	4,201	15,984	50,313	61,903	79,687	84,651	84,765	95,466
Plots and copilots.....	667	1,930	4,967	5,785	7,209	7,726	7,803	8,710
Other flight personnel.....		18	108	776	1,141	1,365	1,624	1,721
Purser, stewards, stewardesses.....		914	2,075	3,872	4,640	4,954	5,141	5,919
Meteorologists and dispatchers.....		193	2,613	2,450	2,666	2,665	2,419	2,544
Mechanics.....	1,650	4,054	10,844	15,788	20,973	20,717	20,108	23,747
Other hangar and field personnel.....	923	1,880	7,012	9,822	12,888	14,249	14,575	15,855
Office employees.....	961	5,855	19,241	21,894	27,939	30,193	30,436	34,129
All others.....		1,131	3,463	2,016	2,731	2,782	2,659	2,841

Source: 1934 and 1940, Department of Commerce, Civil Aeronautics Administration; 1945-55, Civil Aeronautics Board. Published in *CAA Statistical Handbook of Civil Aviation*.

## No. 715.—EMPLOYMENT, HOURS, AND EARNINGS IN AIRCRAFT INDUSTRIES (ANNUAL AVERAGES): 1948 TO 1955

ITEM	1948	1949	1950	1951	1952	1953	1954	1955
<b>EMPLOYMENT<sup>1</sup> (1,000)</b>								
Total.....	297.7	264.1	281.8	463.6	660.7	779.1	768.1	738.4
Aircraft.....	158.0	175.3	188.4	313.3	425.9	472.4	473.4	471.2
Aircraft engines and parts.....	48.6	53.5	55.8	90.8	138.8	174.7	158.9	147.1
Aircraft propellers and parts.....	7.7	8.2	8.3	10.8	14.5	17.7	15.9	13.6
Other aircraft parts and equipment.....	23.3	27.0	29.3	48.8	81.6	114.2	119.9	106.5
<b>HOURS AND EARNINGS</b>								
Average weekly earnings:								
Aircraft industries.....	\$60.21	\$62.69	\$67.15	\$75.78	\$79.66	\$82.19	\$85.07	\$89.62
Aircraft engines and parts industries.....	\$63.40	\$65.24	\$71.40	\$85.81	\$86.02	\$87.29	\$85.06	\$88.97
Average hourly earnings:								
Aircraft industries.....	\$1.47	\$1.55	\$1.62	\$1.75	\$1.87	\$1.99	\$2.08	\$2.17
Aircraft engines and parts industries.....	\$1.55	\$1.60	\$1.70	\$1.89	\$1.98	\$2.03	\$2.09	\$2.17
Average weekly hours:								
Aircraft industries.....	41.1	40.5	41.4	43.3	42.6	41.3	40.9	41.3
Aircraft engines and parts industries.....	40.9	40.7	42.1	45.4	43.9	43.0	40.7	41.0

<sup>1</sup> Data for week ending nearest middle of month.

Source: Department of Labor, Bureau of Labor Statistics, and Department of Commerce, Civil Aeronautics Administration and Bureau of the Census. Published in *CAA Statistical Handbook of Civil Aviation*.

No. 716.—CIVIL AIRWAYS MILEAGE, CIVIL AIRCRAFT, AIRPORTS, AND FEDERAL-AID AIRPORT PROGRAM, BY STATES: 1955

[As of December 31, except as noted]

DIVISION AND STATE	CIVIL AIRWAYS MILEAGE		CIVIL AIRCRAFT <sup>3</sup>		AIRPORTS AND AIRFIELDS <sup>4</sup>			FEDERAL-AID AIRPORT PROGRAM <sup>6</sup> (\$1,000)		
	L/MF <sup>1</sup>	VHF <sup>2</sup>	Total	Active	Total	Public	Limited <sup>5</sup>	Total	Federal funds	Sponsor funds
<b>Total</b>	<b>59,759</b>	<b>80,185</b>	<b>83,612</b>	<b>59,297</b>	<b>6,839</b>	<b>2,713</b>	<b>4,126</b>	<b>459,788</b>	<b>224,205</b>	<b>235,583</b>
<b>New England:</b>										
Maine	1,011	547	434	314	105	23	82	2,375	1,189	1,186
New Hampshire	387	240	203	135	35	15	20	603	301	302
Vermont	250	—	149	90	25	8	17	1,120	558	562
Massachusetts	665	653	1,295	877	83	49	34	11,891	5,555	6,336
Rhode Island	131	157	184	133	9	6	3	2,703	1,298	1,405
Connecticut	460	581	664	469	39	18	21	3,065	1,537	1,528
<b>Middle Atlantic:</b>										
New York	1,555	2,916	4,255	2,969	272	107	165	32,514	15,604	16,910
New Jersey	699	676	1,789	1,190	111	53	58	12,674	6,188	6,536
Pennsylvania	2,552	4,334	3,388	2,413	230	133	97	25,666	12,461	13,215
<b>East North Central:</b>										
Ohio	2,662	3,962	4,115	2,904	242	117	125	15,127	7,307	7,820
Indiana	1,287	2,958	2,538	1,834	130	83	47	9,647	4,677	4,970
Illinois	1,778	3,862	4,741	3,487	383	131	252	33,553	16,131	17,422
Michigan	2,502	1,390	3,611	2,625	252	99	153	17,250	8,264	8,986
Wisconsin	568	929	1,689	1,255	194	80	114	11,978	5,628	6,345
<b>West North Central:</b>										
Minnesota	1,021	1,330	2,220	1,675	224	67	157	11,039	5,491	5,548
Iowa	687	1,217	1,966	1,629	183	80	103	8,976	4,409	4,567
Missouri	1,262	3,034	1,965	1,498	115	55	60	15,296	7,617	7,679
North Dakota	877	539	974	625	172	36	136	2,447	1,228	1,219
South Dakota	751	1,080	992	769	73	32	41	2,914	1,553	1,361
Nebraska	936	886	1,565	1,231	200	72	128	6,279	3,112	3,167
Kansas	1,162	2,240	2,200	1,641	231	82	149	5,938	2,913	3,025
<b>South Atlantic:</b>										
Delaware	129	161	224	156	20	9	11	394	200	104
Maryland	791	696	799	551	44	23	21	6,414	3,203	3,211
Dist. of Columbia	18	—	446	331	1	1	—	—	—	—
Virginia	1,741	2,139	1,075	687	89	45	44	6,396	3,210	3,186
West Virginia	715	1,567	507	336	49	26	23	7,005	3,482	3,523
North Carolina	1,038	1,485	1,526	1,055	109	55	54	5,516	2,789	2,727
South Carolina	948	1,245	509	361	62	32	30	2,509	1,275	1,234
Georgia	2,123	1,895	1,121	766	106	42	64	10,181	5,147	5,034
Florida	2,109	2,381	2,458	1,442	143	88	55	15,198	7,075	8,123
<b>East South Central:</b>										
Kentucky	869	1,762	641	455	49	19	30	7,153	3,581	3,572
Tennessee	1,086	1,349	845	585	56	32	24	9,225	4,618	4,607
Alabama	1,491	1,389	668	468	73	28	45	4,652	2,328	2,324
Mississippi	642	733	867	559	82	32	50	2,641	1,313	1,328
<b>West South Central:</b>										
Arkansas	771	1,150	1,018	680	81	40	41	4,938	2,443	2,495
Louisiana	1,137	1,032	1,326	863	99	30	69	9,338	4,671	4,662
Oklahoma	1,586	2,044	1,812	1,311	143	63	80	8,054	4,074	3,980
Texas	5,640	7,089	6,617	4,703	630	190	440	31,271	15,389	15,882
<b>Mountain:</b>										
Montana	1,508	1,705	1,123	868	167	55	112	2,900	1,578	1,322
Idaho	848	716	802	631	150	38	112	3,472	1,928	1,644
Wyoming	1,395	1,512	477	360	72	28	44	1,811	1,022	789
Colorado	808	1,243	1,168	852	118	41	77	8,304	3,886	4,418
New Mexico	1,530	2,206	780	534	102	36	66	3,266	1,794	1,472
Arizona	1,280	1,605	1,174	780	155	43	112	7,609	4,327	3,282
Utah	1,002	1,177	484	355	56	26	30	4,754	2,932	1,822
Nevada	664	758	444	307	81	27	54	3,235	2,008	1,227
<b>Pacific:</b>										
Washington	1,052	1,051	2,219	1,587	184	69	115	10,066	4,705	5,361
Oregon	920	1,352	1,619	1,176	148	50	98	6,386	3,571	2,816
California	3,730	5,122	9,926	6,766	462	199	263	44,055	18,695	25,360

<sup>1</sup> L/MF—Low/Medium Frequency; radio navigational aids operating between 200 and 400 kilocycles.

<sup>2</sup> VHF—Very High Frequency; radio navigational aids operating on 108 through 118 megacycles.

<sup>3</sup> Includes gliders.

<sup>4</sup> Includes military. Airport type definitions: Public use—all airports serving scheduled and large irregular air carriers as regular, alternate, and provisional stops; all CAA intermediate landing fields; all airports having a true-light certificate to indicate a lighted airport; and all other airports operationally active. Limited—all airports not qualifying as "public-use."

<sup>5</sup> Includes seaplane bases and heliports.

<sup>6</sup> Cumulative since enactment of Federal Airport Act, May 18, 1946, through Dec. 31, 1955. Includes original 1956 appropriation; does not include funds for 1956 authorized under Public Law 211, 84th Congress, 1st Session.

Source: Department of Commerce, Civil Aeronautics Administration; *CAA Statistical Handbook of Civil Aviation*.